	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1253:	
_	TTAGTAGTCA TCGGTATTGG TGGTTCTTAC TTAGGTGCAC GTGCAGCAAT CGAMATGTTA	60
5	ACGICATCAT TTAGAAACAG CAATGAATAC CCTGAMATTG TATTTGTTGG TAATCACTTA	120
	TCATCAACAT ATACGAAAGA GTTAGTTGAT TATTTAGCAG ACAAAGATTT CTCTGTAAAC	180
10	GTTATTTCTA AATCTGGTAC AACTACAGAA CCAGCAGTTG CATTTAGATT GTTCAAACAA	240
	TTAGTTGAAG AAAGATACGG TAAAGAAGAA GCACAAAAAC GTATATTTGC AACAACGGAT	300
	AAAGAAAAAG GRGCTTTAAA ACAGTTGGCT ACAAACGAAG GTTATGAAAC GTTTATCGTA	360
15	CCTGATGATG TAGGTGGAAG ATAITCTGTT TTAACAGCAG TAGGATTATT ACCAATTGCA	420
	ACAGCTGGAA TTAACATCGA AGCTATGATG ATTGGTGCTG CA	462
	(2) INFORMATION FOR SEQ ID NO: 1254:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Torobodi. Timodi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1254:	
30	ACTCATAAGT GAATGGITGA TTACCACTAG TTAAAACTTC ATATACTATA GTTTCTTTTT	60
	TTATTTTGCA ATTAGTTATT TTCATTATAA ACTTCCTTTC AAACACTGCT GAAATAGACG	120
	TCTTTTCAA ATAAGCATGA TTAATACTTC AATTCTTTAA TCCACATATA TTTAAAAGTG	180
35	AGGTAGTAGG TAATAAATAT AAGACTTAAA GTTAAGATTG CTTTTTTCAT GTTTCATAAT	240
	TAAAACCTCT GTAAATTTAA GGTTAGTATT ATGAAATAAT GGATTGGTTT ATTCTTTAGT	300
	ACTAACTTCG TAGTAAATTA TATAGTTCGC TAAATTGTAT TTATCTACTA TATTTTTGGA	360
40	ATAAACAATT TCCTTTCTT TCTTCAGTAA ATTATAAAAA	400
	(2) INFORMATION FOR SEQ ID NO: 1255:	
15	(i) SEQUENCE CHARACTERISTICS:	
4 5	(A) LENGTH: 137 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(D) IOFOLOGI: IIIIeai	
50		
	. (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1255:	

	NAATCTATGT ATGGGGGCAT CCAAAGATTT CATAGACTAC TTATTTGTTG ATGAAGCCGG	120
	ACAAGCAATC CTCAAGC	137
5	(2) INFORMATION FOR SEQ ID NO: 1256:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1256:	
	TGAAATGTAG AAATTGAATT AGAAATGAAG ATTAAAAATC NACACGTATC GTTCAAGTGG	60
	TGCAGGTGGT CAGCCGTAAA CACAACTGAC TCTGCGTACG TATTACCATT TCCACTGGTG	120
20	TCATTGCAAC ATCTTCTGA	139
	(2) INFORMATION FOR SEQ ID NO: 1257:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1257:	
	TTACCANTTA TTTTAACACC ATGTTTAGAC CAATTTGATC TGACTAAATT AATCGCTGTT	60
35 .	TGTACCTCCA AATTGTTACA ACGTACACCT TTAGTTTTTC TAAATTAATG TATATTCATC	120
	ACATCTTCTT CAGTTAAGGG TCAAAGTATA ATTTGTCGAA ATTGTGAAGT CGTTGTA	177
	(2) INFORMATION FOR SEQ ID NO: 1258:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1258:	
50	AAGACCAACC GAAATGAATA TCGACATGGA TTAAGCCTAT ATTCAGATGT AAACGGCGAT	6 Ü
	TATATTAAAA AGCCAATTAC AGAATGTAGT GGTTAATGAA ATATGCCCAA GAATGGGCTG	120

	TTAATTTTC	250
	(2) INFORMATION FOR SEQ ID NO: 1259:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1259:	
15	ACATTTACGG GACATTTCAT TACATCACCC TGCTTTATTT TGGATTATGG CCTAATTTAT	60
	ACTGATAAAT CTAGGAGGTG GAAAAAAGAA TGCCCTGCAA TTTAATTnCA TTTAACCAAA	120
	TAATGAAACA ATAAAAAACA TTATATCGTT ACTTATTAAG TAATTTGGCA	170
20	(2) INFORMATION FOR SEQ ID NO: 1260:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1260:	
	TTTGTACTCC GATACGTTGT ATTCAGGTTG ATGACACTAG GAATTTGTAA TGATCAATTT	60
	CTCTAATTCT TTACAATTGA TAGAATTCTT CGATTTGTGG ATAGACATTC ATATCATTGT	120
35	CTAATGATTT TTGGTGATTC ATAAATTGTG ACTAAAGCTT GGATGCTTTA GGATTGTAGC	180
	TGAGACACAT GTTGCGTGAC TGnGGATTTA TCANATAATC TCAATCACGT GATCCNATCA	240
	CATTCATCAG CTCACTAAAT CAAGATGATC GTCGTTTATG GGCGATTAAT GGCGTACCGC	300
40	CAGTGTCCGC ACG	313
	(2) INFORMATION FOR SEQ ID NO: 1261:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1261:	
	TAGCGATCAT TTAATCAAGG TTAGATTATT TAATGTCAGC ATTACGTTTG ACAATGAACT	60

	GTTTGAGGTT ATCACAATGC CATTTAACAC TATGCGCACA TGGCTGAACT AAThAGCGAC	180
	GAGATGACTT CAAACCTTGA TTAGGT	206
. 5	(2) INFORMATION FOR SEQ ID NO: 1262:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1262:	
	AAGTGTGTAC ACGATAGCTA AACTCAAATA TCACAGAACA ACAAATGTCT TAGTACTTTG	60
	TGCCGGTGGT GGTACAAGTG GATTATTAGC CAATGCACTA ATAAAGCAGC TGAAGAATAT	120
20	CATHTGCCAG TGAAAGCGGC ACTG	144
	(2) INFORMATION FOR SEQ ID NO: 1263:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1263:	
	ATAACGACAC CTAATGCAAT TTGAATAAAG CAGTAGAATT TGTGGGAATC GATTATTGAT	60
35	AACCGAACTA ATAATCACAG CAAAAATAAA ATTAAAAATG CTCTAATAGT GCCTACATnC	120
	TCCTCAAATT TT	132
•	(2) INFORMATION FOR SEQ ID NO: 1264:	.•
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1264:	
50	TATGTCAATT TCGTAGAATT GGTTTTANGC GCTATTTAGA ATAGCCATCA GAYAAAATCA	60
	TTATTTAAAC GTATAATAGG TCAAAATATA GAGAGTTACT ATACAAATTT CTAACTTTCA	120
	CTTAAAATAA AATATATAA ATTAAAGTGG AGGAGAAGG	159

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1265:	
	ATAGCTCAAG CAATCATTAT GTTTATAATG ATTGTATGGT TCTTTATAGA TGCTTTATTG	60
	ATTAATTAAT AAAAAGCTTA TTGCAAAATA TGTTTTTCGG TAACTGTAAT TTAGTGATTT	120
15	TATCATTAAC AG	132
	(2) INFORMATION FOR SEQ ID NO: 1266:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 405 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1266:	,
	CATGGATITA TCTTAGCGAT TGGTCTAATT TTACCTTTAG GTGCACAAAA TGTATTTATT	60
30	TTTAACCAAG GAGCTAATCA ACCAAAATAT AGATATGTAT TGCCTGCAAT AATTACAGCC	120
	GGGTTGTCAG ACAGCTTACT TATTATTATT GCAGTGGTAG GAGTWTCTAT CATTATTATG	180
,	TCTTTACCTG TACTTCAWGC AWTTATTTAT ATAGTTGGTT TAATTTTCTT GATGTATATG	240
35	GCTTGGACCA TTTGGCATGA TAAACCCTCA ACAGATGGAG AAACTCAAAT TATGTCTCCA	300
	ATGAAACAAG TAAGTTTTGC TTTATCAGTT tCATTACTCA ATCCACATGC TATTTLAGAT	360
	ACAATTGGA: TAATTGGLAG TAGTGCTGCA TTATATAGTG GCnGC	405
40	(2) INFORMATION FOR SEQ ID NO: 1267:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1267:	
	TCTTTATATT GCAGTACAAA ATTCGCGTGG AGGTTTAACA CAAGTAGACC GCACAAGATT	60
	TAGCGTCTGA AGGTATTACT GTGTAATGCA TTCGCACCTG GNTATCGTTC AAACACCAAT	120

	(2) INFORMATION FOR SEQ ID NO: 1268:	
5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1268:	
	TTTGCCCAAG TGACGTAAAG TACCCAATGT CCATTTGTAC TTGTATCGCC ATCAACAGTA	6
15	ATCATATTAA ATGTATGGTC AGTCGAAGAT TTTAATAATT GATGAAGTGT ATTCGATTCA	120
	ATCGATGCAT CGTGTTATAA AAGCAAGCAT GTAGCCAATT GGGAATCAAC CCGAnCTTGG	. 18
	CACACATGTA CGTTACACAT TAGAACNCAA GTGACCGACG GTAATCCTAC CCGCTCAACA	24
20	CAAGCGC	24
	(2) INFORMATION FOR SEQ ID NO: 1269:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1269:	
	TCATTGTATA TGAGCAGATT GGCTAGGCGG TGGCTGGACT GACGGAATCG ACACCCGGCT	60
35	GGGGTTGGGA AAAGTACAAG ACGCAACATG CTATGATTTT CCTATGTGGT TATCGTCCGA	120
	TTTAAAGTGA GCAGCGCACG GTCAGTCATC TCTCACAGNA CCTAAAAAGA ACAGTAAGCN	186
	CAACCTAAAG CAGTGGAACT TAAAATCATC AAGGT	21
40	(2) INFORMATION FOR SEQ ID NO: 1270:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(a) conserve a management	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1270:	
	ACAATAAGA CTATTAAAAG AGATATAGGT TAGATATTAC ACTTTTAGAG CAAGACGGTA	6
	TAAATGCAAG TAAATTCGTG TATTTATCAA TACAGCAGGT NGAGTGAAAG GCCCAGCAG	11:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1271:	
	CGTGGCACGT TAAGCGTTTA ACCATAGCAT TAAGATGATT GTCTAGCAGA GGCGATTTGC	60
	GGGCTCACTA CAGTGCATGA TGAACTTAAT GCTTCAAATG TAACATTAAA AATAAAAGCA	120
15	ACGATGTCAC TTCTTACTTC TACATCTGCC ATmTTCGTGA TTTCGTATCT ATCCCGCATC	180
	TCATCTTGAA CGTACGAGCC TAATCGCCCn GCGCGATCCT GCC	223
	(2) INFORMATION FOR SEQ ID NO: 1272:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b). TopoLogY: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1272:	
30	TAGTTACAAT ATCTGTCAAT TTCTGGAGAA CCACTAAAGC TATGCATAAT CCCGCCTACC	60
	TCTTCAGCAT GCTCCTCCAA TAAGATATCG GTACAGTCTT GAGNTGCTTC ACGGTTATGA	120
	(2) INFORMATION FOR SEQ ID NO: 1273:	
35 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1273:	
	TTGCGCGGCA GTAAAATTCA AACTATTGGC GTCATTTTGC CTAGCTTAAC AAATCCGnTT	60
45	TTCTCAGCAC TGATGCAAAG TATTCATGAC CATAAACCAT CTGATGTTGA TTTATGCTGG	120
	TTAACA	126
50	(2) INFORMATION FOR SEQ ID NO: 1274:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	٠
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1274:	
	GATTCTGAAG GATCAATACN ACATGTACAA TTTTGGCGTA GGTGCAAAGG CATCAGGTTT	60
5	GCTTGCTAAT CTACATCGAA GCGGCTACCT AAATTAATGA GAAATCACAC TCAGTTAATG	120
	CATGTACTAG C	-131
	(2) INFORMATION FOR SEQ ID NO: 1275:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1275:	•
20	TGGAGTATTA CCTCAAGTGA ATACAACATA CCTGTTGGAA GATTTTTCAA AACTTTAATT	60
	GGACCAAGTG ATGCCATTGA TGAGTTAAAT CCTAATAGAT TCAGGTTACC TCGGATGATT	120
	GATACTAATT TGGCCTGGCG CACGCTTTAG TAnTAGTGG	159
25	(2) INFORMATION FOR SEQ ID NO: 1276:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 577 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1276:	
,	GAAGTAAATA ATATATAGAA TATAACAGGA AATAAAATAG ATAATATTAA TGTTGTTTTT	60
•	TTACGCATTA TAACTTTAAA TTCGATTTTC AAGTAACTTA GTATCATAAT TAGATCCCCT	120
40	TTGCTTTTTA TTGnTGAAGT ATGAATCAAC AATTGAGACT ETTTGTATTT CAATATCATC	180
	CAAATTAATA TGAAGTTGTT GAAGATATAA AATCGTATCA TTTACATTTG AAGTAATAAT	240
	TTTSATAGTG CCATTATGAT TTTYYCTGAA TAACTAAATC ATCTTTATCT AGTTTTAACT	300
45	TTCTTATATA TTCATCGGAT AACGTAATCT GAGATTGCTG ATTGGTTCTA ATATGTGACG	360
	TTGAATCATT AAGTATTATT TCTCCATTTT CAATGAGAAT AATTTTGTCT GACATACGTT	. 420
<i>50</i> '	CGACTTCTTC AATATAGTGC GATGTATAGA GTATCGTTCG ATTATCTTCT TTTAAATTTT	480
	CAATAATTGA CCAAAAATAT TCTCTAATTT CTATATCCAT AGTCGATGTT GGTTCATCTA	540

	(2) INFORMATION FOR SEQ ID NO: 1277:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1277:	
	CTAAAnTAAG GTAATAGTTA CCAAGTACCA TATCTTGTGG ATGGTGTACT ACAGGTTTAC	60
15	CATCTTTAGG TTCAAGATGT TTTGATGACT GCTAACATCA ACATTCTTGC TTCAGCTTGT	120
	GCCTCTTTTG A	133
	(2) INFORMATION FOR SEQ ID NO: 1278:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
?5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1278:	
	GTTTGCGATA TTTTAGGCAG ACAACCTAAC TTTACAGAAA CAGGTATCTT TTCTGTTATG	60
30	TGGAGTGAAC ATTGCTCTTA TAAACATTCT AAACCGTTTT TAAAGAATTT CCTACGCAGG	120
	TGCCATGGTT TGGGCTGGAG TCAGGTGCGT TGTGTATAGC TGATNA	166
15	(2) INFORMATION FOR SEQ ID NO: 1279:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CECUENCE DESCRIPTION OF TO NO TOPS	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1279:	
	CATAATTATG AAAATGATAT GATTTTATT AGACCATTTA AAAAAGCATA ATTTAAATCG	60
	AAGGCAGGAC ATTGAAATAT GAAATTTTCA ACTTTAAGTG AAGAAGAATT TACCAACTAC	120
o	ACCAAAAAGC ACTTCAAACA TTATACGCAG TCTATAGAAT TATATAATTA TAGAAATAAA	180
	ATAAATCATG AAGCACATAT TGTGGGAGTG AAGAATGATA AAAATGAAGT TATAGCTGCA	240
	TGTTTATTAA CAGAGGCACG AATTTTTAAA TTCTACAAAT ATTTCTACTC TCATAGAGGT	300

	ATTCATTTAT AAAAATAGAG GAGTATTTAT TCTTGTTGAT CCATATATAA TAGAGAAT	418
	(2) INFORMATION FOR SEQ ID NO: 1280:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
10 ·	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1280:	
15	GACATATCAT AAATTACATG GTGATAAAAT ThTCGGCTAC GATACTAACG GATTCCCGAT	. 60
	TACCTGGTTT TATCCATTAG GTGAAAAGAA AGTTGAACGT AAGGCACCAA AATTAGAAAA	120
	ATAATTAAAT AAAACAGCTT AATGATGTAA TGAAATTAGT GAGTTAATCA CTGACTTCTA	180
20	CGTCATTGAG CTGTTTTTT GTGCTTTGTT ACAAAGCATT ATTGAATTTA TTTTACGTGT	240
. •	TCATATTTTG AAACATCAAA GCCGTCTTGT TTAGCTTTGT TGATAATGTC TTTGATTGAA	300
	TGTAGTCCTT TATCGGCGAA GTATGATCTT AAGTTGTCTT TTGTAGCTTG GTCAGCATTC	360
25	TTATCTAATA ACACATCAAT ATAACTTAAT TCATGTTCTA AGAAGTTTGC ATCATCATGT	420
	AGTACGAGTC CATTTGAGA ATAAACTTT	449
30	(2) INFORMATION FOR SEQ ID NO: 1281:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1281:	
40	TATTTATATG TACTGATGAT GAAGTTTATT ATCTATCAAG TGGATCAAAT CCGAAATATA	60
	ATCAGTATAT GGGTGCATAT CATCTACAAT GGCATATGAT AAAATATGCA AAATCACATA	120
•	ATATTAATAG GTATAATTTT TATGGAATAA CAGGCGTCTT TAGTAATGAG GCGGATGATT	180
45	TTGGTGTTCA ACAATTTAAA AAGGGTTTTA ATGCACATGT TGAAGAATTA ATTGGTGATT	240
	TCATCCAACC AGTAAAACCC ATTCCAATAT TAATnTGCCA AACCTnAAT	289
	(2) INFORMATION FOR SEQ ID NO: 1282:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 402 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	
55		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1282:	
	ATTCAGGTCG AGGTGGCCCG GCTCCATGCA CCGCGACGCA ACGGGGGAGG CAGACAAGGT	60
5	ATAGGGCGGC GCCTACAATC CATGCCAACC CGTTCCATGT GCTCGCCGAG GCGGCATAAA	120
	TCGCCGTGAC GATCAGCGGT CCAATGATCG AAGTTAGGCT GGTAAGAGCC GCGAGCGATC	180
10	CTTGAAGCTG TCCCTGATGG TCGTCATCTA CCTGCCTGGA CAGCATGGCC TGCAACGCGG	240
10	GCATCCCGAT GCCGCCGGAA GCGAGAAGAA CTAATTGATA CAACACTTTC TCAACCTGAT	300
	CTTCTTTACC TTCTACATAG CGCGTGAGCA GAACCATCTT GATGGCACAG CTAAATAATG	360
15	Caatgggaat Gatgtatgac attcggggtg cataatttct ct	402
	(2) INFORMATION FOR SEQ ID NO: 1283:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1283:	
	TATTGACAAC CAGAGTACAA ACAGCAGCTA TATTATAGAC TTAGGTCTGA AGTGGTAGTG	6.0
30	GCGGTGGACT ATTGTTGCGA CTGGACACCC GAGATATTGC TCAGCANAGC ATCATATACA	120
00	GGAAGTATTA AAAGAGACTT GNCGAGTAAC AAATACTGAA GTAATAAGAT TAAAAGAGTG	180
	AGGTGTATAA TTATCCTCGT TCTTTTATAT TAGTATGATA GAGA	224
35	(2) INFORMATION FOR SEQ ID NO: 1284:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1284:	•
45	CGTGGGAGAT TGTGCATATT GATTATGCAA GGAAGNACGC CATAAAAGTG GATGGCCAGA	60
	CATCATTAAT ATTATTGATA CCACATCAGA AGGTATTCAA AGTGAATCGG TGATAAGIGA	120
	ATCAATTAAG TCTGCCAAAG AAAAGA	146
50	(2) INFORMATION FOR SEQ ID NO: 1285:	

5	 (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1285:	
10	ATTTCGCGTG ACTGGACTTG GATCCGCAAC TTGGTAATTT AAGGAATTCT TGTCATTATA	60
	AGCCCTCCAT TTCATGATTT GATTTGCCAC TCGGTAACCA TTGGGGTTAC AGCTTCACTA	120
	GGGGADATAC GAACCTC	137
15	(2) INFORMATION FOR SEQ ID NO: 1286:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 594 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1286:	
25	GCTATTGATT ATGGTTAGCm TGTTGTTCwC TTTACTCATT GTTCCTTGGt TAAGCTC+AA	,60
	AAAAGCACGT ACTTTAAAGA AACATGCAGC TAATGAACAG GCCCGATTTT TAAATCATTT	120
30	TTATGATTAT AAAGCTGGTA TGGATGAACT ACGTCGATTT AATCAAATTA ATCATTATCG	180
	AGATAATTTG ATGGCTAAAT TAAATCATTT TGATAAATTA CAACTTAAAG AGCAACGCTT	240
	TTTAACGATT TATGATTTTA TATTAAATAT TATTGCTATG CTTTCGATTT TTGGTAGTTT	300
35	AGTTCTAGGA TTAATTCAAA TTAATGCAGG CCAACTAAAT ATTATTTATA TGACGAGTAT	360
	AGTTTTAATG GTCTTAACTT TATTTGAACA AGCTGTACCA ATGACAAATG TCGCGTATTA	420
	TAAAGCGGAT ACTGACCAAG CATTGCACGA TATTAATGAA GTGATATCTG TACCTTCTAC	480
40	TAATGGAAAA AAACGTCTTA ATGATAAGTA TGATGCAACG AACATTTATG AAGTTAAGGA	540
	TGCTAGTTTT AAGTATTGGA ATCAGCAAAC GTATGTnTTG TCGGATATTn ATTT	. 594
45	(2) INFORMATION FOR SEQ ID NO: 1287:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1287:

	TGAAGTAGTA ATAAACCCGG AACCCTAAAA CTGGATGGAG GATGAAACCA AAAAGGAACC	120
5	AGCCAAGCCA AATTGGGGAA ACCAGGACGG CCCAATGGAG GTCCAACCAA TCCAAACCCC	180
	ATTCCGCTAA TGnCTATGGG TCCCAATTAG GAATCCAATG GATGGATGGA TTn	.233
•	(2) INFORMATION FOR SEQ ID NO: 1288:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1288:	•
	AATCCCTGTA CGTTCGTAAA GCTAGCTGGn TAATAAAAAA GAGTCTGGAA AGTAGGCAAC	60
20	AATCAATGAC AATGAGCAGA TCCAATCGCA GTATGCTTAC TCGTGTAAGA AACGCAAACA	120
	TGGTGCGTCA CG	132
25	(2) INFORMATION FOR SEQ ID NO: 1289:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• • •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1289:	
35	TATCTGATAA TTCTGTACCC AGGCGTTTTA ATATGTTTAT CTGGTGTCAT GATACATAAA	60
	CATTGTACCT TTAGGTCATA CGATGTCGCA AATAACTGCT CTTGCCGTTA CAACACCATT	120
•	ACGGTTATAC ACTINITAGCC AATCATTATC TGGG	154
40	(2) INFORMATION FOR SEQ ID NO: 1290:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 145 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1290:	
	AAAAGTGGCA CATGCGGCTG TAAAGTCCTC TGTTTCTGAT AAATCATAAC CTATATACAT	60
	GTCTACCTTC CAACTCATCT AAGAAATAAG TCATATTTTT TTGAATGTTG GATAATCAAT	120

	(2) INFORMATION FOR SEQ ID NO: 1291:	
5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1291:	
	CTTAATGCTA TATATTCTTT GTTTTTGATA CCATTTCATC GTCTTCTCTT GATTTCTAAA	60
15	CAATTTAGAA AATAAAAGAA TATACGCTTC AGACTTATTA AAACCCGCTA TATCATCTTG	120
	ATATTGTATT AACAATTGAG TAAAGCTGTG TATTAAGTCA TCTTTCTTCG ATGCAATGGT	180
20	AGTTAATGAT TTTACACGAT AAGCATATTT ATCTGTAAAT AACTTAGCAA CTACCCCACC	240
20	TAAATCATGT CCTAGAATAT GTGCCTCATG AATATTTAAC TTCTCCATTA GAATTTTTAA	300
	ATCCTCAACG TGATCGTTTA AATCGTATGA TTCACTTTTA GAAGACTTGC CATGACCTCT	360
25	(2) INFORMATION FOR SEQ ID NO: 1292:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1292:	
<i>35</i>	TGTGTTAGTT GTTTATGTTG TTGATATATA CTGCTCGTGC ACATGGTACC CAGACGATTC	60
	AACGNTGAGT ACACAAAATA CAAAATCTAC GGCACATGGT ACCGTTTATA AAAGATGTGG	120
40	AACCTTACTA GCATTTGTTG AGAACGCTAC ACGTTTAAAT CAAG	164
	(2) INFORMATION FOR SEQ ID NO: 1293:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1293:	
	TTAATTTTCT ATATATTTCT TAGGTTATAT TGGTATCTAT GCCAGTAAGT GACATGACGT	60
<i>55</i>	TAGATCATTG AATCCAAGAT CGAnACATTG GGACATATTT ATTAACGACA TGGCTTCAAC	120

	(2) INFORMATION FOR SEQ ID NO: 1294:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1294:	
	GTCATGCnTA ACAGGTGAAT ACCTAGTAAT TCAGATATTA TCATTTATAT ACCCTCTTAT	60
15	ATTTTAGTGC ATTATCTCGA AATCGAGATA CTTAATGTAA ATTTTTAGTG CAGCCTACAC	120
•	TTCGTGATTG GGCANTAGTT CTTAAACGCT GTGGTAAGAT GTTAATTCAT CCTTGGTTAA	180
	CACACAAACG CTTGGTTAAT GCTCAGCAGC TAG	213
20	(2) INFORMATION FOR SEQ ID NO: 1295:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1295:	
	AAGAAGTTTG AAGTCTATGA AAACAATCAA AAATTGCCAG TGAGACTTGT ATCATATAGT	60
	CCTGTACCAG AAGACCATGC CTATATTCGA TTCCCAGTTT CAGATGGCAC ACAGATGAAA	120
<i>35</i>	TGTTTCTCGn CCAATGAGAG GGAGAACATA GTATCAATAG ATG	163
	(2) INFORMATION FOR SEQ ID NO: 1296:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1296:	
	TAGCTTTAAT ACATTCTGAT TTTTAAACGC TTCGAAATGT TTTCAGTAAC TAATTTTGCC	60
50	ATAATCCCAA AAACTCCTTG ATTATTAACT GCnTTTTGAT TGGCTACATT AAGGCTTTAT	120
	ACACATCAGC TCACCATGCC CATATCTACT AATGGTTATA TCCCTAGAGT CCCAGCGATA	180
	TAACATCAAC GCTTAChGGA GTTTCAG	207

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1297:	
10	ATGGCATCGG TTGGTTATGA AAAGnCAAGC CATGGGGAAGG CCATATTTGG GGTGGAATCA	60
	TACCTGGAAC CTTTGGTGCC TACCACCAAT TGGTAACGGT TTTACCATCG GATTTTTAGT	120
15	GATACAGCGA TATGTTTGT ACAGG	145
	(2) INFORMATION FOR SEQ ID NO: 1298:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1298:	
	TCCAAAAGTT AAAGGTCAAT TGAAACAGAN AAAGCTTATT ATGTCTGGAA AAGTATTAAA	. 60
30	AGTAATGGTA TCAAATGACA TTGAACGTAA TCATTTTGAT AAGGCATGTA ATGAAGTCTT	120
	TCAAGCGTTG AATTGTGGT	139
	(2) INFORMATION FOR SEQ ID NO: 1299:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1299:	
	GATATTGGCA ACCTTCAGCC GATGACCTCA TGGCAAATGA TTGGGAAGTT ATAAACCCAA	60
45	CTAGAGACCA GGAATTATTG AAGCAATTAT AGAAATGCTA TCAATGATAC TTTTTAAATT	120
	GTTTTTAAAC TCATTTTCAA AGTAAACAAC AGTCTTGTCT GAAATTGTTA CATGATAAAT	180
50 ·	AGTGTTACTA GCATACACGC CGTTTAGGAA CCCAGAGTTT TTAAGTTTAT TTAAATCGTA	. 24
	TTTTACATCT TCGAAATGTA GTTTTTGAAA ATACTTTGTA TGTATATCTT TAGCACTTCC	300
	AAAATTTATT GGCAGGTTAA TITAATCGAA CCTAACTTTA CACATTCTAA ATAATCTTTG	36

(2) INFORMATION FOR SEQ ID NO: 1300:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 693 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1300:	
•	CTACAGTGCA ATTTAACCAT GAAGTTGTTG ATTTTGAACA ATTATCAAAT GGTCAATGGG	6
15	AAGTTACTGT TAAAAATCGC CTAACTGGTG AGAAATTCAA ACAAGTAACT GACTACGTAT	12
	TCATCGGTGC TGGCGGTGGA GCAATTCCAT TATTACAAAA AACAGGTATC CCTGAAAGTA	18
	AACATTTGGG TGGATTCCCT ATCAGTGGTC AATTCTTAGC TTGTACAAAC CCACAAGTTA	24
20	TTGAACAACA CGATGCCAAA GTTTATGGTA AAGAGCCACC TGGTACACCA CCAATGACTG	30
	TACCTCATTT AGATACGCGT TACATTGATG GTCAAAGAAC ATTATTATTT GGACCATTTG	36
25	CTAATGTTGG ACCTAAATTC TTGAAAAATG GTTCTAACTT AGATTTATTC AAGTCTGTTA	42
,	AAACATACAA CATTACAACT TTATTAGCAG CAGCAGTMAA AAACTTACCT TTAATTAAAT	48
	ACTCATTTGA CCAAGTAATT ATGACAAAAG AAGGTTGTAT GAACCACTTA CGTACTTTCT	54
30	ATCCAGAAGC ACGTAATGAA GATTGGCAAT TATACACTGC TGGTAAACGT GTACAAGTTA	60
	TCAAAGATAC ACCTGAACAC GGTAAAGGAT TCATCCAATT CGGTACAGAA GTGGTTAACT	66
	CACAAGACCA CACTGNAATT GCATTATTAG GTG	69
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1301:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 471 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1301:	
	CATACTTGGG TAATGCTGCC CATGGNACGC TGGNACAAGG TAAAGTTGCA CGTTTAATTT	6
	GTGnATGTAT ATAAAACAGA TGGGAACACC ATTTGAAGGG GATCCTCGTG CAAACTTAAA	12
50	ACGTGTATTA AAAGAAATGG AAGATTTAGG CTTCACAGAC TTTAACCTAG GACCTGAACC	18
	AGAATTCTTC TTGTTTAAGT TGGATGAAAA AGGGGAACCA ACTTTAGAAC TTAATGATGA	24
	TGGTGGATAT TTCGATTTAG CACCTACAGA TTTAGGTGAA AACTGTCGTC GTGATATTGT	30

	TCAACATGAA ALTGACTTAA ATATGCAGAT GCTGTTACAG CATGTGATAA TATCCAAACA	420
	TTTAAATTGG TTGTTAAAAC AATCGCACGT AAACATAATT TACACGCAAC A	471
5	(2) INFORMATION FOR SEQ ID NO: 1302:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1302:	
	CATGTGATTA AGAACGTTCA CTGATGAATT TTTGATGATC GTTCGGTTTT TGTTTGGATT	60
	TTAATGATTA TTTATACAAA AACAGCCGTA TTTCAAGCCG TACATTTTAA ATTTAACTAA	120
20	ATTTGCATCT AGTTAATAAT TGCATTTATC AAATTTGTCT TATTGATCCA ATCTAATTTG	180
	TACTCACAAA CTAGTTT+AA ATTCTAACTT TATCTCTCAG TTCGTTATCA ATCATCAGAC	240
	ATAAACCAAT GAAGCAATCA GAAAACACTC TAATTTTCTa TTAGAAATTT GnTTTAATAT	300
25	AAAAAAACAG GCTTACTTCA TATAATTTAT GAAATAAACC CGTCAATTTT TGTTTAATAT	360
	GCTTGGTGAT CTnTTATTCT GCGTAATAAT GCTAAACCTG	400
30	(2) INFORMATION FOR SEQ ID NO: 1303:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1303:	
40	AAAAGCTTAG TTGAACTTTC AACGTATCTT AGCTACTGAA GGTGCAGAAG TTTTAGAAGC	60
	AAAAGACTGG GGTAAACTnC GCCTAGCTTA TGAAATCAAT GGATTTCAAA GATGGGCTCT	120
45	ACAACATC	128
	(2) INFORMATION FOR SEQ ID NO: 1304:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

•

55

CAATTTCTTT TACAATTTCT AAAGCTTCAT CAAAGTTTCC TTCAATAGNA AACGATTTC	120
GCACCATACA TTACTGACTT G	141
(2) INFORMATION FOR SEQ ID NO: 1305:	·
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1305:	· .
GACTGGTAAA CACTAAGTGA ATTAGCTGGA CAATGAAAAA TATCCACAAT CATTAATTA	A 60
20 CGTACGCGTA ACAGATAATA TCGGTTGAAG AAATGTTGAC GTTAAGAGTT ATGACTAAN	T 120
AGAGTAGAAT GATGGTGAGG TCGATTTTAG TAGACTCTGG AC	162
(2) INFORMATION FOR SEQ ID NO: 1306:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1306:	
35 TTCTTAGTTG CTCGAACTAA TAATTTGCTT AATAATGATS TAGCTGTTAT TGTGTCATA	T 60
TCTAAAGGTG CCATAAATTT AAAAACTATA GTAGTTGTTT TAAATTTAGT TGTTGGTGA	A 120
ACTTTGATAT GTATATTTGG TTGAGATTGT CTACTCAAAT ATATAGCCTC CTCTATATC	T 180
TCTTACATCT ATATTTTCT AGTGATTTTA AATTGAACTA AGCTATTTTT CATATAATT	T 240
AATGAATACA AAATAGGTTC ATCTGATTCA TTATAGTGCG TA	282
(2) INFORMATION FOR SEQ ID NO: 1307:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) SERPANDERS and a	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1307:

	AAGGAAAAAA CCCTTGGCCT TTGGAAAAAA CCCAAAAGGA AAGGGGTTTA AAAAAAAAA	120
	AAGTTTAACC CGGTTGGCCC CAATTCCCGC CCGGGGAACC CAAAAGGAnT TTTAAAAAAG	180
5	GAAACCCAAT TCCCGGCCGG AAAAGGGTTT TTAAGCCCAA CCGGATTTTA AGGAAAACCA	240
	TTTTAAGATT ACCTGGGAAA AAAAACCGTT TAGGAA	276
10	(2) INFORMATION FOR SEQ ID NO: 1308:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 692 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1308:	
20	TGTATTTAAT GCTCGTACAC ACAATTACAA AACTGCAAGA GAAAAAGCAT TGAGTAATAA	60
	TCATATTCCA GAAAATGTAT ATGACAATCT AGTAAAAACT GTACATAAAT ATTTACCATT	120
·	GCTACATAGA TATACTGAAT TGCGCAAAGA ATTGCTAGGT TTAGATGACT TGAAAATGTA	180
25	TGATTTATAT ACACCATTAA TTAAAGATAT TAAGTTTGAA ATGCCTTATG AAGAAGCTAA	240
	AGAGTGGATG TTAAAAGCAT TAGAACCAAT GGGTGAAGAA TATTTAAATG TAGTTAAAGA	300
•	AGGCTTAIAC AATCGTTGGG TCGATGTCTA TGAGAATAAA GGTAAACGTT CAGGTGGCTA	360
30	TTCATCAGGT GCACATTTAA CTAATCCATT TATTCTACTT AACTGGTCTA ATACTATTTC	420
	AGACTTATAC ACATTAGTTC ATGAATTTGG GCATTCAGCA CATAGTTACT TCAGTAGAAA	480
35	ATTCCAACCG TCAAATTCLA GTGACTACAC TATTTTTGTC GCTGAAGTTG CATCAACTTG	540
	TAACGAAGCA CTTTTAAGTG ATTATATGGA TAAACATCTT GATGATGAAA AACGCTTATT	600
	ATTATTAAAC CAAGAATTAG ANCGTTTCAG AGCTACATTA TTCCGACAAA CAATGTTCGC	66
40	AGAATTTGAG CATAANATTC ATGCAATTGA AG	69
	(2) INFORMATION FOR SEQ ID NO: 1309:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1309:	•
	GGACTATTCG ATGATAGCTT TTTTGACTGG ATTTACTAAA ATGAAAGCAA GTACTATATA	6

	atCGAGTAAT ATCTATATAT GACATTTTAA A	151
	(2) INFORMATION FOR SEQ ID NO: 1310:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	ν	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1310:	
15	TGTGCATTTG ATAATATTCA CTATGATTCG TGGTCATTCA CATCGTCTAC GCTCACCGGT	. 60
	CTAAACGTAC CTAACCCAAC ATGTAATGAA CAAATGCGAT ATTAnCACCT TTATT	115
	(2) INFORMATION FOR SEQ ID NO: 1311:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1311:	
30	CACCCAACTG ACCTCAATGG TATAATGCAT TTGTGAATAC CGAATATCAT TGGAATATCT	60
	CCTATCATAG GAATATAATA TGTATATATC TTCGTAATCn TGTTCATTTT TAAGAAAATC	. 120
	AATAGAAGTG TATCGATTAA AACTACATTT GAACCATTAC TTTG	164
35	(2) INFORMATION FOR SEQ ID NO: 1312:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 141 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1312:	
	GAGGAAAATC GAAGTGAAAT TATTAAAATA TGGCGATGGT GGAATACGAA TAGATGGTGG	60
	TTTAATAGGC GGCTTTATTC GGGTGTTATT GTATGTAAAG TGAAAAATTT AAnCCCATTT	120
50	CAAATTGGTG ATATCGTTGC G	141
	(2) INFORMATION FOR SEQ ID NO: 1313:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>55</i>	(A) LENGTH: 133 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1313:	
	AATTGGTATT ATGCATAGTG CAATGGATGC TGGTATTAAA NTCCAGAGGA TTACAATTAT	60
10	TAGTTTCAAT AATCACGATT AGTTGAGATG GTTAGCCACA ACTTTCTAGT GTATCACCAT	120
	TATATGTATC GGT	133
	(2) INFORMATION FOR SEQ ID NO: 1314:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 629 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1314:	•
25	TTGCAATTAG AATGCTGTTT CACCCCTTTA AACCATACTA TATATTTAAA TTTAGAGTCC	60
	CATTIACACC AGGITTAATA CCGAAAAGAC GCGAAGAAAT TGCAACTAAA ATTGGCCAAG	120
	TGATTGAAGA GCATTTGCTT ACAGAAACTT TAATTAATGA AAAATTGAAA AGCGAGCAAT	180
30	CACAGCAAGC AATAGAATCT ATGATTCAAC AGCAGTTACA AAAGTTGACG AAAGATCAAT	240
	TGTCAATAAA ACAAATTACT TCTCAAATCG LATTGATTTA GAACAAGTAT TACAAACTAA	300
	TGGAAATCAA TATATTGAAT CACAATTGAA TAATTATTAT ACAAAGCATC AAAACCAAAC	360
35	AATAGCATCT TTATTGCCAA ATCAACTTGT AACATTTTTA AATCAGCATG TAGATAACGC	420
	AACAGACTTA TTATGTGATC GTGCAAGGAA TTATTTATCA TCTGCAAAAG GCACACAAGA	480
40	TATTAATGAT ATGTTGGATA CTTTTTCAA TGAGAAAGGT AAGTTAATTG GTATGTTGCA	540
40	AATGTTTATG ACAAAAGAGA GTATTGCAGA TCGCATTCAA CAAGAACTTA TACGTTTAAC	600
	ATCTCATCCT AAAGCAAGAA CAATTGTGA	629
45	(2) INFORMATION FOR SEQ ID NO: 1315:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

1916

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1315:

	ATACAGGTAC GTTCGTTATC AATGGTGCAG AACGTGTAAT CGTATCTCAA TTAGTTCGTT	120
•	CACCATCCGT TTATTTCAAT GAAAAAATCG ACAAAAATGG TCGTGAAAAC TATGATGCAA	180
5	CAATTATTCC AAACCGTGGT GCATGGTTAG AATATGAAAC AGATGCTAAA GATGTTGTAT	240
	ACGTACGTAT TGATAGAACA CGTAAACTAC CATTAACAGT ATTGTTACGT GCATTAGGGT	300
10	TCTCAAGCGA CCCAAGAAAT TGnTGACCTT TAAGGGGACC AATGGAATAT nTACCGTAAT	360
-	ACCTTTAGGA GGAAAGACCG GCACCTGAAA CCACTGGAA	399
	(2) INFORMATION FOR SEQ ID NO: 1316:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 778 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1316:	
	ATAAACATTT TAANATGTAA TTNAGAAATT TTTTTAGTAC AAAATCTTTC TTAATAATGA	60
25 ·	TTAAGGAGGT CAGTAATGAT TGAAATTAAA ACATTAACGA ATAATGATTT TAATGAGTAT	120
	AAGAGACTTG TTTCGACAGT CAATGAAGAA TTCACTCAAG ATTCACATTA TAGTCAAACA	180
30	ATGACLGACA CCTTAATACA TGACATTTTA AATCAAGGTT CACCGAAATG TATTGTATTT	240
	GGCTGTTATG AAAACGAAAC ACTTATCGCA ACAGCTGCCT TAGAACAAAT TCGATACGTT	300
	GGAAAAGAAC ATAAATCATT AATTAAATAC AACTTTGTTA CTAATAACGA TAAATCGATT	360
35	AATAGCGAGC TCATTAATTT CATTATTAAT TATGCACGGC AGAACAATTA CGAATCTTTA	420
	CTTACATCAA TIGIGICAAA CAACATAGAN GCTAAAGTTT TCTATAGIGC ACTAGGATIC	480
	GACATTCTTG GTTTTGAGAA AAATGCAATT AAAATCGGAA ATACCTATTT CGATGAACAT	540
40	TGGCTTTTTT ATGATTTGAT TAATAAGTAA TACAGTTTTA TATATTCTAC rTTTCTCATA	600
	AATTCAAATC ATATAGGTTC TATTTTTCAT ACAACTACTC TACTATTGAG TAGTTGTTTT	660
	TTATTTGATA TGATAACAAT AAGTTTTTTT CAGAATATTC TATGTTTTAG GGGTGTCAAA	720
45	ACTTAATGGG TAACCGCAAT TATTCATGGA nTTATCTTAA GCGATTGGGT CCTAATTT	778
	(2) INFORMATION FOR SEQ ID NO: 1317:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 465 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1317:	
	TGCACAAGGT GGTGCAGCAA TTGCAGCGTT CTTTATTATT AAACAAAATA AGAAGTTAAA	60
5	AGGTGTGGCA TCTGCCGCAG TATTTTCAGC ATTACTTGGT ATTACAGAAC CGGCTATGTT	120
	TGGTGTTACT TAAAACTAAG ATATCCATTT ATTGGCGCTA TCGTTGGATC AGGTATTGGT	180
10	TCAGCATATA TTGCTTTCTT CAAGGTTAAA GCAATCGCAT TAGGAACTGC TGGATTGCCA	240
	GGATTLATTT CAATCAATCC AGTACATGCA GGATGGTTAC ACTACTTTGT TGGTATGACA	300
	ATATCATTCA TCATTGCTAT AACAGTTACT TTAALTTTAT CLAABAGAAB AGCAAATAAA	360
15	GAAGTTGTAG AATAAAAAA GAGGTATGAC AGTAATCAAA GTATCAGTCA TTGCAAATGC	420
	AATAGGATGA AACTTTAAGC TGTCATACCT TTNAATTTAG TTATA	465
	(2) INFORMATION FOR SEQ ID NO: 1318:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1318:	
	GACTTAATAT AACTGATCTT TTGCTATTAT TGAAACATAT TTATAAAGAA AATAGCATTG	60
30	CATAATACCC AAGCAATAAA TACTATAATA TTTTGGAAGT AACTAATCAA ACATCTAAGA	120
	CATGATTGAT AnCACCACAG AAAAATAAGA	150
	(2) INFORMATION FOR SEQ ID NO: 1319:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	·	
4 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1319:	<i>.</i> .
+3	CCACCTTTTA ACGTACGTAT CCATGAATCA TATGATTAAT TTAATATCAT TATTACTTAT	
	TTCTTATCTT TATTnTCTTT TTTTCTTCTG AAAAGTAGTA ATGAACCTAT TGATGCTAAT	120
50	AATCCCCAAA T	133
	(2) INFORMATION FOR SEQ ID NO: 1320:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTY: 140 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1320:	•
	TAGTGTCCAA ATGAAAGTGT GGCTACCTAT AGCTGGTCCA TGAAGCTTTA TTTTTAACTG	60
10	GTTTGTACAA TATTTAAATA TCAAAATCTT CTCGCGnTTT GGACAGTTTT TTTGGTATTA	120
	ACCATTAATA AACGGAAAGA	140
	(2) INFORMATION FOR SEQ ID NO: 1321:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1321:	
25	CTTATTATAT AATTCTAATC CTAGTACATT ATACATTTTA TCAAATAGTC AACTGGATAA	60
•	CTTTGAAAGT GAATGAThCT TTTAAAATAA AGAAGATAAT ATAAAGTGCT TGATAATGGA	120
	TTTGTAGTTG ATGATTTAAA	140
<i>30</i> ·	(2) INFORMATION FOR SEQ ID NO: 1322:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 185 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1322:	
	TCGTTGCAAC ACAGGCACTA TTTTACCTTT ATATGTTGTA ATAGTTTGAT TGCTGCCATT	60
	TAAACAACCA CCTTTCTTAC TCCACAAATT TACCATGAAT AGCGCGCGCG CCATAGCGGG	120
45	ATACTAAAGT GTTCTGCACC TTGCCTGTCT CCTTCAAnTT TCGATTACTG TAGAGCACAA	180
	GTACG	185
	(2) INFORMATION FOR SEQ ID NO: 1323:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1323:	
5	ACCTGCAATT TTCGTTATTC AAAACAATAA CTATGCAATT TCAACACCAC GGAGCAAGCA	60
3	AACTGCTGCT GAAACATTAG CTCAAAAAGC AATTGCTGTA GGTATTCCTG GGTATCCCAA	120
	GTTGGTGGTA TGGTGCGGTA nTTGGTTT	148
10	(2) INFORMATION FOR SEQ ID NO: 1324:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1324:	
20	GAAAGCATTG ATGGACAAAG ATGAACCACC AAATGAATGG CGATTAGATT CCAATTGATA	60
	TGGCTCACGG AAAATTTATG CTACAATTGC GTCCAGTAAA CAGTGGCACT AATAGTCCAC	120
25	TTANGCTCCC TAGTGGATGA A	141
	(2) INFORMATION FOR SEQ ID NO: 1325:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1325:	
•	TTATACTATC GTGAAGGGTT TATTACTCAA TTAATGCCTA AAAAGGATAA AAGTTATTTA	60
40	GTTATTGATA ATTTTAATCG TATAGATACA GACATTTTCC AAACGTATAT TAATGTGTTA	120
	GAAGGCTATG AAGTAACATT ACCACGTTAT AATAAAGACG GTAATATGAT TAAATGGTCA	180
	CGACAAAAG ATTCTTTCTA TTAT	204
45	(2) INFORMATION FOR SEQ ID NO: 1326:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1326:	

	TITGITAAAA GTCTTCATTI CGGATGAAGC TTTATCTATI GAACGCTCCA AATTATTTAA	120
_	AGCAGCTTTT TCTTTATTAA CAGCTGT	147
5	(2) INFORMATION FOR SEQ ID NO: 1327:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	And A GROUPING PROGRESSION AND ADDRESS OF AD	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1327:	•
	CATTHAATGA AGAAACTGAA CCCHGAACTA TACGACGCAG AAGGCAATTT AATTAATAAT	60
	AGTAAAACAT CCAGCTTAAT CCATTGATGT GTTATAAAAG TGAAAAGCTC CAATCAAAGT	120
20	TGACGCTCAA ATAGTTTAAC TTTGATCGGA GCTTTTTTAT AATGTATACC GAAAGGTTCA	180
	AATATTATAT AATGGTAGAA TTGAAAGAGA ATATAAAAAA GTGAGGATAT AAAATGAAAG	240
25	TTAATCCTAA TAATATAGAA TTAATCATTA GTGCAGTAAA AGAAGAACAA TATCCAGAAA	300
25	CAGAATTGTC TGAAGTGCAC TGAGCGGTCG ATCTAATGTA GGTAAGTCTA CATTTATCCA	360
	ATAGTATGAT TGGCAGAAAA AATATGGCAC GTACATCACA GCAACCCGGC AAAACGCAAA	420
30	CGTTAAATTT TTATAATATA GATGAACAAC TTATTTTTGT GGATGTTCCA GGGTATGGAT	480
	ATGCTAAAGT AAGTAAAACA CAACGTGAAA AATTTGGGAA AATGATTGAG	530
	(2) INFORMATION FOR SEQ ID NO: 1328:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1328:	
45	AAGAAAGTTT GATCTAGGCC AACCTTTCTA ACAACGATAC GACAGTTTAA TAATGTCTCA	60
	TATCTTGACT TCCCATGATG ATATGGTCGT TAATCACATC AATGACTTAA ATCTGGATNA	120
	ATAGATGCGA ATGGATCTTG AAAAATCATT GTA	153
50	(2) INFORMATION FOR SEQ ID NO: 1329:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1329:	
.	TGTAGTTCGT TTGTGCTCTA ATTAAACGGT CGAAACCATG GATTAGACCT GCGATTACAA	60
5	CTGCAATGAT ACCTGAAGCA TGAACTTCTT CTGnTAAAAA GTATACGACA AAAGG	115
	(2) INFORMATION FOR SEQ ID NO: 1330:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs	
4	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1330:	
	AACAAGTTAT CTACATCTGC TGATAGGCAT ACTATTACTA ATAAATAATG CATCTTTTTG	60
20	CCAGATGTTT TCTTAATCAA TTGCACCAAC GAATGGCACT CTCATCTGTA Gn	112
	(2) INFORMATION FOR SEQ ID NO: 1331:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1331:	
	TTCATTGCAG ACANTTGGTG AACCATGTGG ACGAACTAGT CCTAGATTAA GATAAGAGAT	60
35	TAGTGAnCAT TGCCACCACT GCAATTAAAC ATTCTTGGAA AAATTAACTT AAGTTAGAAT	120
	CTTAATGCAT ACAGATACGG CGAAGATGAT GCCAAAGAAC GTCACGACTT TATGATGATG	180
	ACTGAACCCA GTTTTTACGG AAG	203
40	(2) INFORMATION FOR SEQ ID NO: 1332:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1332:	•
	ATGATGTACT AATATCTAAT AAGCTTGCTA AGTCTTGAGA CCTCATTTTA ATCACCTTTT	60

	GACTATCTAT TTCTGTTAGT ACGTTTGACA TATTAATCAC TCCaCyTTAA CGCAaTAWAW	180
	TTTAWTAGCG TTGGCTATTG TTGTTTAACG CGATGGNATT TACAACTTGT AACGTAAGAG	240
5	AATGAAAAAT AAGCTGNATA TGTTGTTTG	269
	(2) INFORMATION FOR SEQ ID NO: 1333:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1333:	
	TAGCTTTTGC CCAATATGGT GAATCATGCG CCGTTCTGTA ATAATCTTCA CTTGGCATTC	60
20	TTGGAATTTG AACAACATCC TGTTCATTTT TATAGANTGC TTAAATGGTA CAGCTGAAAA	120
	ATCAAAGTAA TGTCCTTTTC TG .	142
	(2) INFORMATION FOR SEQ ID NO: 1334:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1334:	
	ACTGATGCCC AATATGCATC TTGnCAATTG CAGGTGTGCA TGACTAAACA CATGACAAAT	60
<i>35</i>	CTGCCTGACT TTTTGCTGAC CCATAAATAA TTGGnCTAAC TTTTTGCATC TTGATCTTGC	120
	ATCCTTGCCT TCCTATTTAA AATGCTACAA ATAAATTTGC CGGCGAGTGA ATTTTAATGT	180
40	TTTACAACGC TGTTCAATAC CTGGGAATAA G	211
	(2) INFORMATION FOR SEQ ID NO: 1335:	211
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 129 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1335:	
	CTTGAATCTC TTGTGCCTCT GTGATGTATC ATCAAATTAT TTGCACTGCT TCTTCTTTTA	60

	TCCGCTCGC	129
•	(2) INFORMATION FOR SEQ ID NO: 1336:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 633 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1336:	
15 .	CATGATGGCn TCTTACCAAA GGCGATTTTA AGAGCAATGA TACCAAGATA TTTTTAATAC	60
	TGATCAAAGT TCAGGTGGTA GCACAATTAC ACAACAACTT GTTAAAAATC AAGTTCTTAC	120
	CAACGAAAAA ACATATAGTA GAAAAGCAAA TGAATHCGCC TAGCAATTAG ATTAGAACAC	180
20	CTACTCTCAA AAGATGAAAT TATATATACA TATTTAAATA TAGTTCCLTC GGTAGAGATT	240
	ATAATGGCGC TAATATTTCC GGAATTGCAT CCGCTTCATA TAGTCTATTT GGTATTCCAC	300
	CAAAAGATTT ATCAATTGCA CAATCTGCAT ACCTTATCGG TTTGTTGCAA AGCCCATATG	360
25	GCTATACACC CTACGAAAAA GATGGAACGT TAAAATCGGA TAAAGATTTG AAATATAGTA	420
	TTCAAAGACA ACATTATGTA TTAAAGCGTA TGTTAATCGA AGATCAAATC ACTGAAAAAG	480
	AATACAACGA CGCATTAAAA TATGATATTA AATCACATTT GTTAAATCGA AAAAAGCGTT	540
30	AATTGATGCT CACTTTTTAA AGTAACCACA ACAATGAATC CAAATATTAA AAACAGCAGT	600
	AAGATTATTT TCAATTAGAA AATTTCTCAC TGC	633
35	(2) INFORMATION FOR SEQ ID NO: 1337:	
.40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1337:	
45	ATCANTATTT AGCAGTTATC ATTATGCTTG AACGGGTGGT AAAGGCGGAG AAGTCATCCA	60
	CTTTTTCCTA TACTACAAGG ACCTTTACTT TAAAACAACG AATTTACAAA ATAAAAGGCA	120
50 ·	TAATTTCTTT TCTGTCACAT CGCTCATTCT AACTACTAGA CTTTTAAAAT CGTTCCTGTA	180
	ATTTAAACTC AATCAACTnT CAATTAATGA TGCATAATAT GATTATAAGT ATAGTAGTTA	240
	ACTTCAAATA TCTTAGAAAT GTCCTGTACT ATATCTCTTT TATTCTCAAA AGTCATAGGT	300
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 1338:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 125 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1338:	
	TACGGCATAT ACCTCGTTCA TCAATGTTCG TAAACATTAT TTAAAACATC TCTTACATCT	60
15	TGCGTTGGAA GTTCTTCATA GTCGAATTTC ATTGTmTTAT CAAAGTTTTC CATTTGCGAC	120
	ACTCC	125
	(2) INFORMATION FOR SEQ ID NO: 1339:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1339:	
	GAGCTTCGTT CCATTGTTAT CAAACGATTG CCATTCTGAA ATGCTGTAAA TAGCATGCTT	60
30	CAAATCATCT TGTGCCTGCA GCAGTTTCTT TGNAATATGC TTCATATCAT T	111
	(2) INFORMATION FOR SEQ ID NO: 1340:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1340:	
	TCACACGTTT AGTTTTCTAT GAATACCAAT ATTTTAACAC CATGTTTAGC CAATTTGTCT	60
45	GCTAAATTAA TCGTGTTTGT CCTCCAAATT GACACGCACC TTTAGTTTTT CTAAATAATG	120
	ATATCATCAC ATCTCTCAGT TAAAGGTCAA ANATATTG	158
50 /	(2) INFORMATION FOR SEQ ID NO: 1341:	-
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1341:	
5	GCTTCAGGTC AATTAAAACG TTCAAGAGCT TTCACATCTC ACTTATTCGC AAACAAGAGC	60
	ACTAAACAAA AACGTCAATT ACGTAAAGCT AGATTAGTGT CTAAGAGCGA TATGAAACGT	120
	GTAAAACAAT TATTÁGCATA CAAAAAATAA GAACAAATAC AGAAATCGGT AGGAATTACC	180
10	TAAGGAGGAA TTTTTTATGC CACGAGTTAA AGGTGGAACA GTAACAAGAG CGCGTCGTAA	240
	AAAAACGATT AAATTAGCTA AAGGTTACTT CGGTTCAAAA CATACATTAT ACAAAGTAGC	300
	TAAGCAACAA GTAATGAAAT CAGGTCAATA TGCTTTCCGT GACCGTCGTC AACGTAAACG	360
15	TGACTTCCGT AAATTATGGA TTACACGTAT CAACGCAGCA	400
	(2) INFORMATION FOR SEQ ID NO: 1342:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1342:	
	GTTGAACAAG GGCAACAAAA ATTTCGAGCG AAACAGATTT TTGAATGGTT ATATCAAAAA	60
30	AGAGTAGATT CGATTGATGA AATGACGAAC TTATCGAAAG ACTTACGACA GCTTTTAAAA	120
	GATAACTTTA CTGTTACAAC TTTAACAACT GTAGTAAAAC AAGAAAGTAA AGACGGTACA	180
	ATTAAATTCT TATTTGAATT ACAAGATGGC TATACAATTG AAACTGTTTT AATGAGACAT	240
35	GATTATGGAA ATTCAGTATG TGTAACGACA CAAGTAGGTT GTCGCATCGG ATGTACGTTT	300
	TGTGCTTCTA CACTTGGCGG CTTAAAAAGA AACCTTGAAG CTGGCGAAAT TGTTTCACAA	360
	GTTTTAACAG TTCAAAAAGC CCTTGATGCT ACAGAAGAGC	400
40	(2) INFORMATION FOR SEQ ID NO: 1343:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1343:	
	GAAAATTTCA TCAGGTGTTG GCGTGGAACG TACATTCCCA TTACACACAC CAAAAATTGA	. 60

• .	TTTACGTGGT AAAGCTGCTA GAATCCAAGA AATTCGTTAA TCAGCATTTA AACAAAGCTA	180
	TGTATGAGTC AAATTCGACT CAAACAATAA AGCCATCTAG GTCACTTTTA TGGAGTGATA	240
.5	TAGATGGCTT TTTTTGCTGT TTAGTTAATG TAAAGTTGAT AATGTAATTG TTTATTCCTT	300
	CTCTATTCAT AACGTGTTTG CTCAAAATGG TTATATAAAC AAAAATCTAC TAAGTGCCAT	360
10	TGAAAAGGAC TTAGTAGATT TATTAAATAT ATGCGTANA	399
	(2) INFORMATION FOR SEQ ID NO: 1344:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1344:	
	AACTTACAAC ACCAGGTAAT AACAGCAATA AAGGCACCAG TTAGTGCGGT AATGCCAnTA	60
	TCTAGGCCTT TAGGTTGCCA TAGTACGAGA TGTAGAGGTA CTAGAGGAAT GAGTGTCGCT	120
25	AAAGTTGTCG TCGT	134
.4.	(2) INFORMATION FOR SEQ ID NO: 1345:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1345:	
	TCATAATAAA CAAGTTCACA TGAATCACAA CATCTGAAGA CAATGTTCAA AATGAGGCTG	60
40	GCACAATAGA TGATCGCAAG TCGNATCATC ACACAGTACT GAAGCAAGA	109
•	(2) INFORMATION FOR SEQ ID NO: 1346:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1346:	
	CCATATCTGG nACGACCGAC ACCTTTACCA CCAACGATTG GTGCCATTTG TTTGCATAAG	60

.

	(2) INFORMATION FOR SEQ ID NO: 1347:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(with Graveway programmers and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1347:	
	CAATTGAAAG GTGAATTTTA TAGGTCCATG ACAAACTAAG GCTTGTTAAA GCTTATTAAC	60
15	ACAGTTTCAT CAAATAGTTA AATTAGTTTT TGTTTTGCAA TAAATTGGGT ATAGATTACA	120
	AnTG	124
	(2) INFORMATION FOR SEQ ID NO: 1348:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		٠
	(w.) CDOVIDVOD DECORPORATION AND TO MAKE	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1348:	
30	CATCAGTGGC CTGATCACCC CAACATTTGA CATCAATGCA TACCAGTTGA TTTGAACAAT	60
	GATTGCATTG AGCTATCATC AAGTTTGTCT TTAAGCTACT AAACCCACGA ACCATGTTAA	120
	CCCCGTGGTC ACCATCACCA ATTGCTCGAT CTAATTCAGT TAATTCAGAT TCATGTTTTT	180
3 5	TAAACGTTTC TTCTAAATTT AATAAACGTG CTTTCATATC ATCALTTCAT TGTGCaCtaT	240
	AAATGLATAT TATTCATATT CACTTCTnAT TTAAAGTATG ACTTGTTGTT GGTGCTAAAA	300
	ATGCHTCCAA ATATTCTGGT TTATHAGGCA CGATAGT	337
40	(2) INFORMATION FOR SEQ ID NO: 1349:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1349:	
50	ı	
	CAGCACGTAA ATACAACAAA GCGATCCCCA GCTTGTGGCA CATCATTAAT ACCTGTAATT	60
	TCAACAGGCG TTGATGGACC AGCCGTTTTG ATTCTTTGAC CTAAGTCATT ACATGCCGAA	120

1928

.55

(2) INFORMATION FOR SEQ ID NO: 1350:

(i) SEQUENCE CHARACTERISTICS:

5 .	(A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1350:	
	CAATTTTACT TTGAATTTCT TTTTTATCTT TTCTAGTTTT ATCGTCCCAC TCTTCAATCC	60
	ATTITITAGC TITATCITCA TTATTAGTCA ACTIGCCIAT TICTITAAT ATTCITITATG	120
15	ATTGTATTTA TTGTATGTAT ATGGGATTGT TGGCGCTATT TTTTGGTATT TTTTTATATT	180
	TTTATCCATA GCATCTACAA CAATTAAATC TGGTTTLGCT TTAGCAACTC TTTCAACATC	240
20	ATTITCTCCA ATATAATCAA CCCCTTTTAA ATAAGGTTTT AAAATTGAAG AATCTTTAGT	300
	TATATCTGAA ACAGCAATTG GTTTGATTCC TAACTTTATA AAATCACCAA CATAAAATCC	360
	AGTTAATACA GCAACTCTTT TAAGGTTCTC nGGGACTTT	399
25	(2) INFORMATION FOR SEQ ID NO: 1351:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1351:	
35	TAAAACTTAG GCGGTTTTGC ATGATTATAG CGCTCAACAC GTTTGAAATT ATAGGTCATC	60
	TCTGGTATTC TTGTACGATT CTTTTTCCAA TCTAAATCAA AGTTTTCAAT TTCTTCTTTT	120
40	GAGTTTAGAC TTAATCGATC ACGTTCATGT TCTTTAAAAG ATGGAATAAC TTGTTTAAGT	180
	GACCCTTCCA TTCTTAATTG ACCATGTGAA AACCAAGCTA TGTAGTTACT CACTTGTGAA	240
	ATTITATCAA TATCATCACC AATTGACACA ATCGTTAAAT TATTTTCAAT ATAATCATTT	300
45	GTTAATTCAA TCGCACGTTC CATAAATTGT GGTGTTAAAT AGTCAATAAC ATGATTTAAA	360
	ATAATAATAT TTGATTTTGA TGAGCGTGCA ATACTTAATA	40
	(2) INFORMATION FOR SEQ ID NO: 1352:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1352:	
5	AAGGGAACAA AAGCTGGAGC TCCACCGCGG TGCGGCCGCT CTAGAACTAG TGGATCCCCC	60
	GGGCTGCAGG AATTCGGCAC GAGCATATCT AGTATTTTAG GACGGAGGNA GTACATT	117
•	(2) INFORMATION FOR SEQ ID NO: 1353:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1353:	
	AGTTCAGGAG AGTTATAAAT ATTAGGGTGG TACATGCCCG AAATCATTGG AATTGTTAAA	60
20	GTAGATTTTA CAGTTTAGAG ATAACAGACA TGTCTATATG AAGGGCTGTC TACCCTCGTA	120
	AGGTTATATC CTACAGNTGA ACGTATCAAG CTT	153
25	(2) INFORMATION FOR SEQ ID NO: 1354:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1354:	
3 5	TGTTGTAACA GCTCTCTATG TTTACGTTGG AAGTATGGTT TATTTTTCAT CTTCACATTT	60
	AGTTCCTTAT TTAAAAGTGA TAGAGCAATT GCACTCGTAG GTCAAGAAGC GGGATGCCAA	. 120
	CACAAAGTTC ACAAGAnAAT ACACTTTTGA AAATATTGG	159
40	(2) INFORMATION FOR SEQ ID NO: 1355:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1355:	
	CGNCTTCCTT CAACCATTGT AGAAGTTGTC TCATATACTT ACTACGGCTT GCTAATACTC	60

	(2) INFORMATION FOR SEQ ID NO: 1356:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1356:	
	GGATTCATTG GTGCTTATTT ATTTACATTC AATAATGAGA nCTTTACACA ACCAATTGGT	60
5	CAAATTATAG ATGTCAACAT GTTTCTTCGA CACCTACAAA AGATGCACAA	110
	(2) INFORMATION FOR SEQ ID NO: 1357:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1357:	
	TAATGGTGGG GTATATTTAT ATTAGTACCG AATTTTAGGn GCCTCACTAT CATTTATCAA	. 60
10	ATTATTTAAA GTGGGATCCT ATCGCAATCA ATTGGCAGGG GCAGAATAAT GGCATTAGTC	120
	GTTGAAGATA TCG	133
	(2) INFORMATION FOR SEQ ID NO: 1358:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1358:	
5	GTGTCGGTAA GTCCACTTTC TTAAATCATT ATCGTCCAGA ACTTAATCTT GAGACAAATG	60
	ATATATCAAA ATCATTAAAT CGAGGAAAGC ATACTACAAG ACATGTCGAA CTATTCGAAC	120
	GTCAAAACGG TTATATTGCA GACACCCTG GATTCAGTGC TTTAGATTTT GATCATATAG	180
0	ATAAAGATGA AATAAAAGAT TATTTTCTTG AATTAAATCG ATATGGTGAA CATGTAAGTT	240
	TAGGAATTGT AATCATATCA AAGAACCTAA TTGTAATGTT AAGCATCAAT TAGAGATAGG	300
	GAATATTGCG CAATTTAGAT ACGACCATTA TTTACAACTA TTTAATGAAA TTTCCAAATA	360
_		

	(2) INFORMATION FOR SEQ ID NO: 1359:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1359:	
	CTGTTTTAGT CTTATTGATT GCCTGACCAT TAACTAAGTA ATTTGTGTTT GAAGCGGTTA	6
15	ATTGAGCAAT GATTGGAATG TCGTATTTCT TTCTCGTTCG TGAAATGACA TTTGTTAACT	12
	CTTCTAGGTC GTAATACGTT TCGAAAAGTA GCGCGTCAAC GCCTTCTTCA ATTAAGGTGT	180
	CTATTTGAAT TCAGTATGAT AAAGAATAGT TTGTAAGCTG ATATCCCCCT GTTTGGATAC	240
20	CTCTAAACCC CACCAACTGG GGCCCAATAT ATACGTAAnC TnTAATTGGC nGGCTTTTTT	300
	GCGATGCGAC GGGGGGCTGG AGGATGCTTA ACCTTAACCT CCAGACCGAA CCGTTTAACC	360
	TTTCCAAAAT TGCACCATAG GAATGGGTGG AT	392
25	(2) INFORMATION FOR SEQ ID NO: 1360:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1360:	
35	CCATGGTTAT TTTCTTCACA TTTCATGTAT ATATATTTGT TTATTATCTG TCTCTACTAG	60
	ACTGTAACCT CCAACATATC TGTTTTATAA ACCAGAGAGC AGTCATTCAA TAAATAAACA	120
40	GATCTGAGGG CCAACTGGCA TGTTGTCAAC TTATGATATT	160
	(2) INFORMATION FOR SEQ ID NO: 1361:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1361:	
	GTATCCTAAA GATTCAGTTA ATCGGAGCGT TGTATTGCAT GAAGGTACAT TGCGGAATGC	60
<i>55</i>		

	ATATTTATTC ACGATNTTAT TTAGCGAC	148
	(2) INFORMATION FOR SEQ ID NO: 1362:	
5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1362:	
15	AAAATTACTA TGAAGATTGC ATTAGGATGC GACCATATTG TTACAGATAC AAAAATGCGT	60
•	GTATCTGAAT TTTTAAAATC AAAAGGACAT GAAGTCATTG ACTGACACTT CACTCATNAG	120
	TGGCGACAGT GTACGTATCA GACTTAG	147
20	(2) INFORMATION FOR SEQ ID NO: 1363:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid	,
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1363: CTGGCAAAGA AGACAACAAC AAGCTGGTAA AGAAGCAACA ACAAGCCTGG TAAAGAGACA	60
	ACAACAAnCT GGCAAAGAAG ACGGCAACAA GCTGGTAAAG AAGCAACA	108
35	(2) INFORMATION FOR SEQ ID NO: 1364: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) IOIOZOGI. IIMCAI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1364:	
45	GACAATGTTG CTGTAATGGG GAAGGNAATG GGTTGGTACC GCGAATTGAA TAATTTAAAA	60
	CCGTAATATA TAATCGTAAT TGTTAAGCCC TCATTTTTAT AAATTTTGGA CCTCTTGAAA	120
50	AAGTTACGTT TTCAAGAGGT TTTATTTATC CTA	153
	(2) INFORMATION FOR SEQ ID NO: 1365:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1365:	
	TAAGAGAATT ATATGCATTC CAAACGAAAC NAACAGAAAA ACGGACCAAA CTAACTGTCA	
		60
10	CAAGTACAAT CGCTGTACTA CTGCAAAACA CGCAAAACGA ACACTTACGT ACACACAAAA	120
	AGACCACCAT TCACGTCGGG ATTATTAAAA AGGTAGTCTC GTACATTTAT TAAACTACTT	180
	ACGT	184
15	(2) INFORMATION FOR SEQ ID NO: 1366:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 452 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1366:	•
	ACATTAGATG GGTCAATCAT GTTATACACG GTGATTTAGG GGAGTCAATC AAATATAAAA	60
	GGCCGGTAAT TGATGTTATT GAGGAAAGAA TTCCAAATAC AATATTACTC GGTGCTATGT	120
30	CATTAATTAT TACTTATATT ATCTCATTTG CTTTAGGAAT AACGTCAGGT AGATATTCTT	180
	ACAGTTTGAC GGATTATACT GTGCAAATAT TTAATTATTT GATGTTAGCC ATTCCATCTT	240
	TTATTGCGGG AGTATTTGCA ATTTTTATTT TTTCTTTTGA ATTACAATGG TTCCCGTTTC	300
35	AAGGTTCTGT TGATATTAAC CTTAAAGAAG GTACTTTTGA ATATLATATG AGTAAAATAT	360
	ATCACACATT TTTACCTGCA TTCACTTTAG GTTTATTATC TACTGCTGGT TATAWTCAAT	420
	ATTTACGTAA TGATATTATT GAAAATTCTA AA	. 452
40	(2) INFORMATION FOR SEQ ID NO: 1367:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1367:	
	TTGTGAGTAA TTGGACAATA TAAGTGTTGG TCTTGGATGG CATATCCTTG GTACGACCTG	60
	GGCAACTTGC TTCATAGCGC AGTTAGGAAC TGATCAATCA TTGGCGTTTT GATACCTAGC	120

	(2) INFORMATION FOR SEQ ID NO: 1368:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1368:	
	TGGTGCAAAT TAAAACGGTT GCATATGCAC GTACGACGTA TTGCTAAATA CAATCAATTA	60
15	TTACGTATCG AAGATGAATT ATTTGAAACG CTAAATATGA CGGTATCAAA TCATTCTATn	120
	ACTTAG	126
	(2) INFORMATION FOR SEQ ID NO: 1369:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
25	(b) Toronogi. Titleat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1369:	
	TGnAAAGTTC ATCAGGGAGC CATTTTTACA ACACAGGGCA CATACGGGTT GTGTTTAGGT	60
30	GCAATTGCCC CAAGCGGACA AAGCATTATT TAAAGTTTCA AGTTCTTCAA CGATTTATTA	120
	GTGCACAGGA TCCTGTTAAG AGGTATTTTG AAGACTTCCG	160
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1370:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1370:	٠
45	AGTAATTCTG CAAATGCCGC AGATAGCnGT ACTTTGAATT ATGAGGTTTA CAAATACAAT	60
	ACCAATGACA CGTCAATTGC TAATGACTAT TTTAATAAAC CGGCAAAGTA CATTAAGAAA	120
50	AATGGTAAAT TGTATGTTCA AATAACTGTC AACCACAGTC ATTGGATTAC TGGAATGAGT	.180
	ATCGAAGGAC ATAAAGAAAA TATTATTAGT AAAAACACTG CCAAAGATGA ACGCACTTCT	240
	GAATTTGAAG TAAGTAAGTT GAACGGTAAA ATAGATGGAA AAATTGACGT TTATATCGAT	300

	AATGGACCAn CTGATGTAGC AGGTGCTAAT GCACCAGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 1371:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Islandi. Imedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1371:	
15	CATCAAGAAC ATGTGAGACC ACAATTTGAA TCACTTGAAA AAATAAATAA AGACATTGTT	60
	GGATGGATAA AATTATCAGG AACATCATTA AATTATCCAG TACTACAAGG TAAGACAAAT	120
	CACGATTATT TAAATTTAGA TITTGAGCGA GAACATCGAC GTAAAGGTAG TATTTTYATG	180
20	GATTTAGAA ATGAATTGAA GAATTTAAAT CATAATACTA TTTTATACGG GCACCATGTC	240
	GGTGATAATA CGATGTTTGA TGTGTTAGAA GATTATTTAA AGCAATCGTT TTATGAAAAA	300
	CACAAGATAA TTGAnTTTGG CAATAAATAT GGTAATCTCC ATTGC	345
25	(2) INFORMATION FOR SEQ ID NO: 1372:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ar e
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1372:	
· s	TTGAAAAGCA GTTTGGATTT ATGCTCAAAC CATGGACGAC GGTTAGGTTT ATGAATGTTA	60
	TTCCAAATAG GTTCATCTAT AAAAACTAGT GGAAAGTGGA AAAAATnAGT GGACCTTCGA	120
40	TAATACGATG TATTATCGT TAGAAGCAGT AATA	154
	(2) INFORMATION FOR SEQ ID NO: 1373:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
50		. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1373:	
	GAGCCTAATT ATTCAAGCCA AATCGCATAT GAAATTGATA AAGAAGTTCA ACGAATCGTT	60
	•	

	CTATACNAGA ACTATC	136
	(2) INFORMATION FOR SEQ ID NO: 1374:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1374:	
15	ATCTTTAACA ATTAAAACCA TACTATCTTG AATCATCATC AAATTTAACG CATGTGCGTC	60
	AAGTTGTTTC ACTTTAAAGA CTTCATTATT AAGACCGACC TTAGACTGCT TTTTAAAAAT	120
	AGGTACATTC GTAATCATAC CTATACTTTG ATTGTCTAAG TGTAATTTGT TTTGGTGATA	180
20	TCGATTATAA TCTTGTGCAG TAAAAGCTGT AATCATTACT GATTGTCTTG AAAATATCGC	240
	GCCTTCATTA CCAATGAAGT CTATTGGAAT aTCATCACTA GCCTGTTTTA ACTTGTAATA	300
	AGCACGATTC THTTCTAAAG AAGCTCTAAA TAATGTCGTT TCATATACTT TGAAGTCT	358
25	(2) INFORMATION FOR SEQ ID NO: 1375:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOBOGI: TIMERI	
	And A Groupson Programme and the second	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1375:	
	ATATTGTGTG CTAAATTTGC TTAAGTATGT TTTTTGTTTG nAAGTAAGCA TATGTTATTG	60
	TCTTTTTAAT TGTTGTAAAA GTGCTGTTTT CATAGAATTA ATATCAGACA TCTTTATTAG	120
40 ,	TA .	122
	(2) INFORMATION FOR SEQ ID NO: 1376:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 467 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1376:	
	CATTTTCTTC GGTTTCTGTC TTTTTATGCG TAGATTTATT TTCTTGTTCT TGGTTATTAC	60

	CGATAATTAC GATGGTAATA AGAAGTTTTT TCAAATATAA CGCCTCCATG TTAATGAAAA	180
	GTAGTTGATA CGTGAAGCTA AATAATTMAT TTCAATATTG CCATAATCAT TTTAAAAAAAT	240
5	AAATATTAGA AAAGTAGGCG ATATTAATAT TTTCATTGTt TTTTGTGTAC TTCAATTAGT	300
	ATAACAAAAC TGTTATGTAT TTATAAATAT AATCATTAGT ATTTTTATGG CTGAAAAAGT	360
	TATAATAAAA GTGTAAGGAA TAAAATATTT GTATGGAAAA GAGAGATAAT TATGAATAAA	420
10	ACCAGTAAAG TTTGTGTAGC AGCAACATTA GCATTGGGCA CACTGAT	467
	(2) INFORMATION FOR SEQ ID NO: 1377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1377:	·
•	AGGTGTTAGA ATTTATTTTA AGTGTTATAC GTGTCTTCCA GAAATTGTAA TGGCATTATA	-60
25	TTTATHAAAG TGTTGGCAGG TTATTTTCAG GTGTATTAGT TTAGGTATCA TTCGTAGTAT	120
	GCTTGGGA	128
	(2) INFORMATION FOR SEQ ID NO: 1378:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1378:	•
40	GGACGCTAGA GGATCCCGGT CTGGAAAATA TCGTCCAGAA CTTAGAAATA TGAAAATATT	60
	CCCAAGACCA ATCGATAATA TATTGCCAAT ATGGCGTGCT GTTGGTGGTC CACCTGCAAG	120
	TGCTATTAAA GCGGGAAAAC AAGGTGTGCC AATGATGATT ACAACCCTTG GTGGCCCAGC	180
45	AATGAACTTT AAAGGTTCTA TAKATGCTTA TCGTCAAKCG GCAACTGAAG CAGGTTTCGA	240
	TGCTTCGCCT AAGTCTTTAC CAGTAAGTAC AGCGAGTCTG TTTTATACAG CTGAAACAAC	300
	TCAGGATGCT ATGAGAGAAT TTTATCCACA TTTGAATACA GGGATGTCAT TTATTCGTGG	360
50	TnGTTGGTTA TCCGAAACAG CAATnGCTAA TTCGTCAGTT	400
	(2) INFORMATION FOR SEC ID NO: 1379:	

5	(A) LENGTH: 108 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1379:	
10	AACTACAACA ATTTAACGAC CAACCTTAAA ANAATACGCT CTTATGCATT GGATTAGTCC	60
	TGATTATACA ATTTAACTGA ACAAATACCC ATCATTTAAA AGACTTAG	108
	(2) INFORMATION FOR SEQ ID NO: 1380:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1380:	
25	AAGTGGGGG AATCAGTATG TTACATTTAC ATATATTAAG TATTAGCGAT TATTTATTT	60
	ATCGCTACAT ACTTAACCAT TTCAAAAATT CAAGGCGGnT CACCATTTTC CAACCCGT	118
	(2) INFORMATION FOR SEQ ID NO: 1381:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1381:	
	TCATGAAAAC ATTTATTTTA AAATTTGATA TTTGTTCAAT AATATTCGAA ATTAACTTnT	60
40	GTGTATAGAT TTTCTTTATA TCCTGAGAGA CATGTACTAT AATGTTTGTG AATA	114
	(2) INFORMATION FOR SEQ ID NO: 1382:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1382:	
	CGGTATTGAT CATATAAATA GTGTTTAGAT GCTATAGTCG GnTGACTTAA GTAATTTAAA	60
5 <i>5</i>		

	GTTTTCTTCT GCCTTGCTTA AAGATATATG ACAGGGTGCT GGCAT		165
	(2) INFORMATION FOR SEQ ID NO: 1383:		
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
10	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1383:	•	
15	TTTGGTGTGA TGGAGTATAT TTAGGTGTGG AAATCAAGAG GGAATTCCAT	TTTCAAACAT	60
	CCAATTAGAG TCGnAATAAG AACTCGCTAT CGGTCCAATT AACTGATTCA	G .	111
	(2) INFORMATION FOR SEQ ID NO: 1384:		
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
25			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1384:		
	CATTTAAATA ACGTTGTGAC CATGTGCTTT ATGCTATGTG CTAGAAAATC	CATGTTTTTA	60
30	TCTAATTTCT TAATAAATTG ACATTAAGTT GGATTCTTGT CCnCTTCACG	TTTCGACATT	120
	GGATGACTGA ACGCATGAAA TCAG		144
35	(2) INFORMATION FOR SEQ ID NO: 1385:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 103 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
40 ·	(D) TOPOLOGY: linear	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1385:	. •	
45	TCGTTGTGCA GCAACTGCAT TACGCTGTCT CATTAATGTA AGCGCAATGG	CCATTTGGTT	60
	TTTChATAGT GGAATACTTG TCAAAATTGA ACATTGTATC TTC		103
	(2) INFORMATION FOR SEQ ID NO: 1386:		
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 533 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		,

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1386:	•
5	CCAGNACAAA TACAACGTTA TATTCAACAA TTAGAAGACT TAGNATAGAT ATAAATTGAG	60
	GGAGGACATC GATATGGCAT TTGAAGGGTT ATCAGAAACC TTGCAAGCGA CGATGCAAAA	120
	AATGCGTGGT AAGGGTAAAC TTACTGAAGC TGATATAAAG ATAATGATGC GTGAAGTAAG	180
10	ATTAGCGTTA CTTGAGGCTG NACGTAAACT TTAAAGTGGT AAAAGAATTT ATTAAAACAG	240
	TATCAGAACG CGCATTAGGT TCCGATGTAA TGCAATCATT AACACCAGGG CAACAAGTTA	300
	TTAAAATAGT TCAAGATGAA TTAACGCAGT TGATGGGTGG AGAAAATACG TCGATTAANA	360
15	TGTCAAATAA ACCACCTACT GTTGTTATGA TGGTTGGTTT ACAAGGTGCT GGTAAAACAA	420
	CAACTGCAGG TAAATTAGCA TTATTGATGC GTAAAAAATA CAACAANAAA CCTATGTNAG	480
20	TTGCAGCAGA TATTTATCGT CCAGCAGCGA TAAATCAATT ACAAACAGTA GGG	533
	(2) INFORMATION FOR SEQ ID NO: 1387:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1387:	
	TTATTTACAA GCCATTAATA TATTTTAGGT TTGTTCTGCA TCGATTCATT GGTGCTATTT	60
35	TATTTACATT CAATAATGAG ACTTTTACAn CAAACCAATT GGTCAAATAT AG (2) INFORMATION FOR SEQ ID NO: 1388:	112
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1388:	
•	ACACCTACAG TTAATAGTAT CAGTGCACAC TAAAGTCCTA ATACTTTCAA CCATGACTAA	60
	TGATGTATCN TCTTGCCCAA CGAACGCGTT GTGCCAAATT GAATTAGACT GGACGGAC	118
50	(2) INFORMATION FOR SEQ ID NO: 1389:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1389:	
	CGACGACACA ACTITATAAT AAAATCITAG ACAATAACGA AGGGTATTAA CAGAACTTGG	60
10	TGCTGTTAAT GCAAGTACTG GAAAATATAC TGGTCGTCGC TAAAGCAAAT TTTTGCTCTG	120
	ACCINCAATG GTACTTGTTG GGGAATA	147
	(2) INFORMATION FOR SEQ ID NO: 1390:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1390:	
25	TTTTTGATCA TGATTTTTGG GCATGGATCA ATCACTTGCT TGGCCAATGG TCTTTCAACA	60
	ATTTGGATAT CTGACCTTAT TCGCTTTATC TAGCACTTTT GnCAATTTGT TGGCATTGGA	120
	AAACATGTGT TTAGATTTTT GTATGCCTCT CGCAGGCTTT T	161
30	(2) INFORMATION FOR SEQ ID NO: 1391:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1391:	
	GCCGCACGCG CGCGATTCTC GGCCTAATAA GAAAACAAAT AATTCCAATT CATATATGnA	60
	CATTTTTGCC TCCTTATTTC TTGAAAATGT GGAATTGGAA TT	102
45	(2) INFORMATION FOR SEQ ID NO: 1392:	
·50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1392:	

	AAAATGCTAT TAACAACGTA TTAAATAATC AAGATTACCA TGGTATTAAA GATAAACCAT	120
	TCGCATTATT CGTAACTGGA TTTTTCGACA ATGTAACAGA TAATACTGTT GGTATTAACT	180
5	TTAAGACAAA AGACGGTTCA ATAGCAGTAT TTATGCGTCC AGATATTGGA GAAACATTTA	240
	GCGAGTTTAG AACATTCTTA GCCGTCTTGT TAATGTTGTT ATTATTTATC TCGATTTCAT	300
10	TAGTTATCGC ATCANCCTAT TCAATCATTC GTCCAGTAAA AAAGTTAAAG CTAGCGACCG	360,
,,,	AACGCTTAAT TGATGGTGAT TTTGAAACAC CTATCAAACA AACNCGCAAA GA	. 412
	(2) INFORMATION FOR SEQ ID NO: 1393:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 186 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1393:	
	AGCAANTGGA TTGCAATGAG TTTCTTATAT TTACAAGGTG GTAGATTGAT TGATGTTTTA	60
25	ACTGCGATAT TAGCAGTAGT CTAGATACCT AGTCACTGAG ATTTTAGATC GAGTTACACG	120
	CACATTATCC GATCTGTCTA TATGGATATC CGTATGACTA CCTATCCCAC GGACTGCACA	180
30	TACTGG	186
	(2) INFORMATION FOR SEQ ID NO: 1394:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1394:	
	TCTTTAAAAG AATCAGGAGC TTGGAAGAAG TATATCAGGA TCATTAAGTC AACAAATTAC	60
45	GCGATATGAA AATTTGAATA ACAATTTGNA AAAGCATGCT TCCGATAATC AGCAAGCC	118
	(2) INFORMATION FOR SEQ ID NO: 1395:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTTACCTCG GATGGATGAT TACTATTTTG GGCTGGGCGC CGGCTTTnGT TATTAGTGGT	60
	GGCAATAGTG GCAAAGTGTC ACAAAAAAAT CCAATAGCTG GAAACCCGGG TATATTTGGG	120
5	TATTAACGCC GGTGGCCGGG ATTTGGCCAA TCGCATTAAT TTAATGGCCA TTGGG	175
	(2) INFORMATION FOR SEQ ID NO: 1396:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1396:	
	AGAAACTTAG ACGATTAGTA TCATATATTA GAACACNGCA CCGAACTTGA AATCATGGCT	60
20	GATATCGCAC CTTGAAGAAG CAAAAATGCC GCACGACTTG GCTTTGATAT ATTGGCACGA	120
	CTTACATGGC AT	132
	(2) INFORMATION FOR SEQ ID NO: 1397:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1397:	
<i>35</i>	AGAGGTCCGG CTATCTATCA AATAAAGTGG TCATTTAAAG CGTACACTTC GGGTGCGTTG	60
	ATTTCTTACT TTAGGTGTAG GACAATTGTA TCGCATCTAT CTTTACnCTA CCTGCATTGT	120
	T	121
40	(2) INFORMATION FOR SEQ ID NO: 1398:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1398:	
	CGTTCGTATA ATCTCACTTG CATCnTGAAT TGAACAACAT CCTGTCATTT TAAGACTGCT	60
	AAAnGTACAG CTGAAAACCA AGTAAGTCCG TTTCGTCTGG CTGTGAAATG GATCAAGGAG	120

	AAACACCTCA TCCAAAGTTC AG	202
	(2) INFORMATION FOR SEQ ID NO: 1399:	,
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1399:	
15	CGTTGGATCA CTGATGCATT CATAAATGGG TGAACNTAAT GTAATGTTAA ATCTATCACA	60
15	GCGCGATAAC AGCAAGAATA TAGTGAACAC CATAAATTGA GCATATCAAT GCCATATTCA	120
	TGGATACACA TAGTTCACCT GGTGGTCGGT GAAAGCCTGT AGATG	165
20	(2) INFORMATION FOR SEQ ID NO: 1400:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1400:	•
30	ACACCTTTGT TTTTGCAAAG CTGTACCACA AAGTACTGGG TAGAATTCTA CGTTATATGA	60
	GNCTTGGCGT ATAGCTTCTT TTAATTCATA AACTGTAAAT TTCTTCG	107
35	(2) INFORMATION FOR SEQ ID NO: 1401:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 106 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1401:	
45	TTTTGTCTAG NAACATCTGC TTCTAATAAT GATCGATCAG CAGCCATTGT GCTTAATCTT	60
	TCATCCCACA TCACAATCTC AATAGAAGGA TAAGCTTCTA ATAATT	106
	(2) INFORMATION FOR SEQ ID NO: 1402:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1402:	
	CAATGTTAAA CCTACACCGT TAACAGCACA CATGATACTA AATTGTTGGG GTGTCATATT	60
5	ATACAATGTT GAGTAnTAAA TGGCGATGCA GATGAATAAC TA	102
	(2) INFORMATION FOR SEQ ID NO: 1403:	
o	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1403:	
	TTTATTATTT GTGCTACAAC TACTTAAAAA AATCAGTAGA TATAGCATTA AACATATTTT	60
9	CATCCCCYTG AATTTTAAAA ACTTTTTCAA AAGCAACACC TCTAAAAATA AATACAATAT	120
	ATTATAGCAA ATAGAAATTA TTATTTTGTT AAATTATGTT GTmCATGTT	169
	(2) INFORMATION FOR SEQ ID NO: 1404:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
)		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1404:	٠
	TTAGTTGATA AGTAAATCCG AGTGACATTG GGATTCACCC CAACCGACTC TATTCCAGTC	60
•	TGAAATACGT GAACCCATAA nATCCTATGT CCAGATTTAT ATTTCT	106
	(2) INFORMATION FOR SEQ ID NO: 1405:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1405:	
	TATTTTTGCA GCAGAGATGT TCGCGACAAG GTTTACGCCA AATTGTCACT GCTACTGCGA	60
	TOTOTOTO ATTOCANOTICO AGGENARTATA TTGANCATTT ANNOGATORG TTTNATTOGA	120

	CTTTAATAAG CAATTTGTAC TGACTGTCGA CATTGCGTCA TGGTCTGTTT	TTGTTTAACT	240
	ATACTATNGG TGCGAAGTAG GCCTATGTTT AGAGGTCTAA CATGCCGTAG	GTCTAATGGA	300
5	TCAGGAACC		309
	(2) INFORMATION FOR SEQ ID NO: 1406:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1406:		
*	GTGGACCTGC AGTTAATTCA ACGATTTCAA GATGGGCGCC AAGAACGAAA	CGTGGCCGAT	60
20	ACTTAGGATT CTGGAATCAT CACATAATCG TGTGCATGAG GTGTTTCACT	TTGGGGTCTA	120
	ATGATTCTTC ATGGAAnGTA TAGG		144
	(2) INFORMATION FOR SEQ ID NO: 1407:		
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1407:		
35	ACCTTTGCGT CCAGAATTAG CTACATGGTA AAGCTTCGTG TTACTATTTT	AGGGATATCT	60
	TCAACnCGTT TCACTTGTAT AATTTGTTTT TGTAATTGGT GAAGTCATAG	TATAG-	115
	(2) INFORMATION FOR SEQ ID NO: 1408:		. •
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
45			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1408:		
50	ATTGGTATTG GCGCTGTAGT ATAGCTTCAT TATCTGATGC CATTAGTATA	CGCACACTnT	60
30	TTATTTATGG GCGTGGTATT CATCCTTATC GGGATCAATT ATTGGGTTAC	ATTTT	115
	(2) INFORMATION FOR SEQ ID NO: 1409:		

5	(A) LENGTH: 123 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1409:	
10	AACCAGATGa AAAGCAAATA TACATATATA ACTCTACATG GGGTCGTGGT TTGGATATTG	60
	TTCATGATGC ATTCGGTATG CCAATGACAA AGCAATATAA AGATAAATTn CAAGAAGATA	120
	AAA	123
15	(2) INFORMATION FOR SEQ ID NO: 1410:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1410:	
	CTNTTTATAT TGAGGATTTT GTATCATATA TGGATAATCA TTAAAGGTGT ATGCTCTTGT	60
	TATCAGATCG CTACGGGTAA AATCGCTTCT ATAGGGCATT TACATGCGGG CTTCTGCCGG	120
30	(2) INFORMATION FOR SEQ ID NO: 1411:	
<i>35</i> ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 455 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1411:	
40	TCTCGTATTG CGTTTAGAGA ACATGCGCAC AAAGGACAAA TTCCAGGTGT TAAAAAATCA	60
	AGTTGGTAAA ATCAAATTTC GTACTTTAGC CCATTTACAA TATCAATAAA ACAATGTACA	120
45	GTATATACGA ATGCTATAAA CTGAATGTTT TCTCATATTA ATAAGGAAAC ATTCGGTTTT	180
	TAATTTGCAT TTAAAAATAA TTAGTTTTTA AAGGGGCTAT TTAAAGTGAA AATATTTGAT	240
	TACGAAGATA TTCAATTAAT ACCTAATAAA TGCATAGTTG AAAGTAGGTC TGAATGTGAT	300
50	ACAACTATCC AATTTGGTCC GAAAAAATTC AAGCTACCTG TAGTTCCTGC GRATATGCAA	360
	ACAGTTATGA ATGAGAAATT AGCGAAATGG TTTGCTGAAA ATGATTACTT TTATAATCAT	420
	GCATCGTTTT GATGAAGAAG CAAGAATACC TnTTA	455

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 118 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1412:	٠
	ACAATGTCAA ATCACAATAG CTGTTGTAGG CATTTGATTA CAATGAACTA AAGGCAAAAT	é c
	TGGAGCAGTT ATCCATGAAT GATTAATAAC AACAMAAAGT ATGGGGTCAA GTTTAGGG	118
15	(2) INFORMATION FOR SEQ ID NO: 1413:	
20 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1413:	
	TGTTGACGAT ATAGGAATTA GCAAGAAATA GGCTAAGATA GTTTCGCACA ACTTGGGGCC	60
	CANCCACTTG CTTGTTTGTA GAATTAGGGG TCCATTTCTC GTGTTGGGGC CCGAACTAAT	120
30	AGTATGAATA TATATATCTA ATATTAAAAC GGCAATATTT ATATGGTATA CATTTTTATA	180
	TTTAGTnTTT GTATAGACAT GCTAATTAGC ACTTTCTAAA AAGGGTTGAA ATGATATACT	240
	GATGA	. 245
35	(2) INFORMATION FOR SEQ ID NO: 1414:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1414:	
45	TTTTTGTTAT TCAAAATTTA GAGTGTGTTA TATGATAACG GTTTTTTCAT AGCGACTTGA	60
	TCATTTTTCG AAATGATGAA AGATATGCAA GTTCAATCAA TCGGAACAAA AATACTATAT	120
	TATGGTAAGA ANTTCCCGAA GACTAGCGCA CTCACACA AGTGCATCCT CGCGAACAAT	180
50 ·	GCGCACTTTT CACAAGCACA CAAACACAAG GCACAAGTGC ACGCAnTATT AGACAATGGT	240
	CTACCTACCA GA	252

	(i) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1415:	
	ATCTGCTGGA AGAGAAAAA GACGCTCTTA AAACTGGCTT TAGAAGGTCA AGATATAGAA	. 60
	GNTATTAAAT CTAAAAAAGA AGGAACTTGA AAAAGTGATT CCAGGAATTT TC	112
15	(2) INFORMATION FOR SEQ ID NO: 1416:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	•
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1416:	
	CTCAATTACA TTCAAGAAAA TGGGTGGAAT TACACAACGT TGGACTGAGA AGTATAGTTA	60
	ATAGCGCAAA TGCNATAAGC CTTATATAAA AATGGGCACA ATTATTTCAT GTACCAACAA	120
30 ·	GAAC	124
·.	(2) INFORMATION FOR SEQ ID NO: 1417:	٠
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) 10F0L031: IIMEAI	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1417:	
	TTCAAGAGCA CATACTGTAA CTCGTACGAG AATTTTTTCA AAATGACGCG TCAATCTCAA	60
45	TATCATCATA TGGTATTCCG AGTAATACCC CTCGnCACCT TTTTTAGGTA GCGTCAATAT	120
	T	121
	(2) INFORMATION FOR SEQ ID NO: 1418:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1418:	
	CTACGCCATC AAGAGGGTGT TAGTGCTATT AACTATTGCG GCGAGAGCAA TTAGTCGAAT	60
5	GCAAATTAGG ACAAGTTGAT GAGTAACTAC NGCCAATATC GGTAAGTTTC ATGGCGGTTC	.120
	AGC	123
10	(2) INFORMATION FOR SEQ ID NO: 1419:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1419:	
20 °	CTTATAATCC TTACHGCAAT TTCACCTTGT ACGGAATTAA ACAACGGAGG CATTTACTTA	60
	CCCCCTTTAC TTAATACGTA CCAAAACTTG GTCGTATTCA ACCATTGGG	109
	(2) INFORMATION FOR SEQ ID NO: 1420:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1420:	
	GCTGTnGTGC TGCCAAGATG CTGATTGAAA AGTATATATG ATTGCATCAG TAGAAGAGCG	
35	AGCAGAAGA AGATATAAAG ATAATCAGTT AAGAGGTGTC GAATCAAATT TTGAAGATTT	60
	A	120
40	(2) INFORMATION FOR SEQ ID NO: 1421:	121
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1421:	
	TGTTTTTACA GTCACATACA CTAGGCATCC TAGCATTATC TAAATTTAAT ACCATCGCAA	60
	CTTGCGCTTT AATCTTCAAG GCCAATTAAA CCTCCTTCAT CTTTCTAACT GCTTANATAT	120
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 1422:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1422:	
	GCCAATCATT GTCAATGTTC AGGCATCANA TTTATCGAAT GATTTTCATT TGCCATGATC	60
15	AGTCAAGGCG GGGATTTATT CAAAAATTAT GACGCCTAGT AAAAAATTTT	110
	(2) INFORMATION FOR SEQ ID NO: 1423:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1423:	
	ATTACCTTGC ATGAATTTCC ATCTGTCAAA TGTGCGCCTT CACGAATTTG TTCGATAAAG	60
30	ATACGTTGGT CACCGTGAAT AATTTCACCA GCTGCATTTm TCCATGGACC A	111
	(2) INFORMATION FOR SEQ ID NO: 1424:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1424:	
	TGTTGTGTGA TTGCGTATTC TCAGGTGAAT TCTTACATAT ATAGTACTTT TTGTTTCCGC	60
45	TTGATTTGAC CTTGCATATC TTTCACATTC TTCGAAAATT GATCAAAGCn CTATTGAAAA	120
	ACCGTATCAT ATACANACCT CTAATTTTTT TGACTAACAA AAAGAATTCT TTGACGTATC	180
	AACTATATCA TCATGACTTC	200
50	(2) INFORMATION FOR SEQ ID NO: 1425:	
EE	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1425:	
5	TITCTATAAT TITAGACTAT TICTACCATG TIGCTGAACA ATTTACTTAG ATAAAAATTA	60
	TMAAATTTTG GTCAATTAAC AAAGTTAGTT TGTTAAAACG TATACTTTAA TTATTCCGG	119
•	(2) INFORMATION FOR SEQ ID NO: 1426:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1426:	
20	AAAATGGCGT TGCATTTTAC TCTAATAACG CTCAAGGCGA CGGCAAAGAT AAACTAAAGG	60
20	CACCTATTAT CGAACATAGT ACTCCTANCG GACCTGGAAT TTAAATCAGA GCGGCC	116
,	(2) INFORMATION FOR SEQ ID NO: 1427:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1427:	
,	TTTTATTTAC GTATAAGTGG GCGTTAGGTG TCACAGCGGT TGTCGATCAA AATATCATCA	60
3 5	TCAATCTTGT ATATGGGTTT GCGGATTCTT ATTTTATGAT TTTACAGAAC TATCCTAGGC	120
	TTATTCTTTA TTAAAAGATG CAACNAGTTA TATAAAAAGA CGAATCTATC AACGCGAGCT	180
40	GCTCACAAGG CATCTCnTAT AGCGTCCACA TC	212
	(2) INFORMATION FOR SEQ ID NO: 1428:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1428:	
	GAAAAATTGG TTCTGAATAT AATGGTGCCG TATACTTTAC GCCTCAAATC AAAGATTTTA	60

	ATTTTAATGA AAAACATCGG TCGAATATAA CATAAAAAAA CGTCTATATC AAAAGCATCA	180
	TGAATAAACA GAGGAGCACA AAAATGAnTA AAAATATAAT CATCAAAAGT ATTGCGGCAT	240
5	TGACGnTTTT AACATCAATA ACTGG	265
•	(2) INFORMATION FOR SEQ ID NO: 1429:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1429:	
	CGTACGAAGG ATTTGCAAAC TTCTTCATTC AACAAGCTAA AGAAGAACGT TTCCATGGAC	60
20	AAAAGATTTA TAACTATATT AACGACAGAG GTGCACATGC AGAATTCAGA GCAGTTTCAG	120
•	CACCAAAAAT TGACTTTTCA AGCAT	145
	(2) INFORMATION FOR SEQ ID NO: 1430:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
30	(b) Torobodi. Illiear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1430:	. '
<i>35</i>	ACACCGCTAA GCGTATTAAG ACAGGATCTG AAAATGGACA CATCGCAATC GAATTATTGC	60
	AATGCCAAGT CATATCGGGG GTGAACCGCA ATTTCAGGNA TTAAGTGGAT AGGTA	115
	(2) INFORMATION FOR SEQ ID NO: 1431:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(b) Toroboot. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1431:	
50	NATGTATING TGAAAAGGTC CTGAGTGGAC AAAAGACCTA AATATTTAAT GGTCGATTAT	60
	CGCACGTCCA TAGTTGGTGA ACAGGAACTT ACACGTACAT CTAATCGCAG ACTATGCGTA	120
	AACTTTGGAA ACTGCTAGTC ATTGAAGCGT GGTATGTGTA TGCACGTAAA TATGCATTAG	180

	(2) INFORMATION FOR SEQ ID NO: 1432:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(wi) CROMENCE PROCESSION CRO YE NO ALCO	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1432:	
	GGAATGATTG ATAAATTGGA CTACTTAAAG ATTTCGGTAT CGTGTCATTT GGCTCAGTCC	60
15	ATGTTTAATC ACCTATGNTG ACATGGTATG ATATTAGTGA CTACCAGAGA TATGGATGAT	120
	TTGGAACGTG GAGGACTTGA TCGTT	145
	(2) INFORMATION FOR SEQ ID NO: 1433:	
20 25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1433:	
30	TTTATTGCAT TTACATAATA ATATCCTTTT GTTGTTTTGG TATTTCTATT CATATACAAG	60
	ACCATACCTT TAACTTTCAG AGCTTCCCCC TTATTTTGAG TTGCCATTTC AGAACCAATA	120
	ATCCATGTAC CTTTATCATT TTTATCAAAT TCGTCATCAC GATAACCTn	169
35	(2) INFORMATION FOR SEQ ID NO: 1434:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1434:	
	GATCTATAGT TCTGTAATCT GACGTGCTTT GCCATGTGCA CCACTCGTCn TAAAAATCAC	60
	TTACACTTAA CCCTTTTCCA CCTTTATCGT ATCCACCTTC AA	. 102
50	(2) INFORMATION FOR SEQ ID NO: 1435:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1435:	
	TTCTTATTAT ACAAATAGAA GCCATGTGTG CTTATATCGC AGCATCATGA CTCCTTTTTC	60
5	ATTTGAATAT ATAAATAATA CAGnCGCTTT CGAATAAATT TAGGCTAATT CTACCA	116
	(2) INFORMATION FOR SEQ ID NO: 1436:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1436:	
	GGGGGTTTAT GTACTGGTGG ATCTGCAAAC TACTTGGCGT AAAGAATATA CAGATATGGT	60
20	AANGAAAAGT TTAGATTCAC ACGCCATCAC AATGGATTAG AAAAACCGAA TTTCTTCAGC	120
٠	AATTCTACAA TTTCTAGTAT ACGC	144
	(2) INFORMATION FOR SEQ ID NO: 1437:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1437:	
<i>35</i>	GTTGCTGGGn AACCTATGGT CGAACATGTA TTGGTAAAGT GTGAAAGGCT CTGGTGGCGA	60
	TCAAGTTGGT AACCATCGTA GTACATGGTG CTGTAAATGT A	101
	(2) INFORMATION FOR SEQ ID NO: 1438:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs	
. 45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1438:	
50	AAAGATGGTG ACATTTCATA TAATCCGAAT GTGCCAAGTT ATTCAGCAAA GTATCAATTA	60
	AGTAATGATG ACTACAATGT GAAGCAACTT AGAAAGAGGT ATGATATACC AACTANGAAA	120

,	AATTTAGAGT TTACATTTAT AGAAAATAAA GAAGAAAACA TCTATTTTAC GGATAGTATT	240
	AATTTCAAAC CTACTGAATA GGGTTAATAG AAGTTTGAAA TGAAAATTTC nTAAAGTGTG	300
5	CAAAATAATT TGTCGCTTTA G	321
	(2) INFORMATION FOR SEQ ID NO: 1439:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1439:	
	CAGTTGTAAT GGGACCTGGG CCAATCGGAT TACTTGTAGC ACAAGTGTTA AAAAGTAAAG	60
20	GCGCAACTGT TGTGGGTACT GGGTTGGGAC AATTGACCAA GTCAGATTAG ATTAAAGCCA	120
	GAANGCCATT GCCAC	135
25	(2) INFORMATION FOR SEQ ID NO: 1440:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1440:	
· <i>35</i>	AAATTATTTT GAACACTTTA TGAAATTTTT ATTTCAAACT TCTATTAACC CTATTCAGTA	60
	GGTTTGAAAT TAATACTATC AGAAAAATAC ACATTInCTT CTTTATTTCT	110
40	(2) INFORMATION FOR SEQ ID NO: 1441: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 436 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1441:	
50	TCTCTTTTGG ATTCATTAAG ATTGCnGCAT CGATACCAAC GTTmAACGGT GATTGTGTAA	60
	TGAATTTTTG CCACCAAGCT TTTTTAACAT TATTCTTTAA TTCAACACCT AAAGGACCAT	120
•	AATCCCATGT GTTTGATAAA CCACCGTAAA TATCACTACC AGGGAACACA AAACCTCTGT	180

	GAAAACGCCC CATGGAAAAT AACAGCATAG TAAATATGCT TTACTTCCAT GGGACGAGTT	300
-	AATATTTTAA ATTGTATATA ATACAAAANA AGTNACGTAT TTAACCCGCG GTTCCACCCA	360
5	AATTAGTGTA GTCACTCGCT TITATTTTAA AATGATTCGT TGCGCCAATC TTATTGTTAA	420
	GCTTACACTA TCCTTA	436
10	(2) INFORMATION FOR SEQ ID NO: 1442:	
15	(i)- SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1442:	
20	ATTTTTAGAA GCATACTGCG AACGTCATCA CATCGATTTA CATATCAAAA AGTTAGATTT	60
	GTCGCATAGT CTCGACCGAA ATAACAGCAT TCAGAATGAA GCTCGAATTA AACGTTACGA	120
25	ATGGTTTGAT GAAATGATGA ATGTATTAGA AGCGGATGTA TTGCTAACGG CGCATCATTT	180
25	GGACGATCAA TTAGAAACTA TTATGTATCG TATTTTTAnT GGGAAATCAA CACGTAATAA	240
	ACTAGGATTT GATGAGTTAT CGAAGCGAAA AGGTTATCAG ATTTATCGAC CACTTTTAGC	300
30	TGTCTCTAAA AAAGAAATA: AACAATTCCA AGAGAGATAT CATATTCCAT ATTTTGAAGA	360
	TGAATCHAAT AAAGATAACA AATATGTTAG AAATGATATT CGTAANAGAA TTATTCCAGC	420
	TATTGATGAA AATAATCAAC TTAAAGTATC GCATTTATTA A	461
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1443:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1443:	
	AAAGGTGATA AAAAACAAAG GCATTGTAAA TTACTTGAAA ACCAAGTGAG TTATTACACG	60
	ATTCTAATTG GGATAATGCG CGATATTTTA TTCCACACTT GTTACATTAT TGCTTTACGT	120
50	GGGGGTTAGC GTGGAnTCAT CAC	143
	(2) INFORMATION FOR SEQ ID NO: 1444:	
	(i) SEQUENCE CHARACTERISTICS:	

		1743
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1444:	•
	TGGTGTTGGT TCATCAGTTG TAAACGCGAT TGTCACAAGA CTTAGAAGTA TATGTACACA	60
10	GAAATGAGAC TATATATCAT CAAGCATATA	90
	(2) INFORMATION FOR SEQ ID NO: 1445:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1445:	•
	ATTGAACAGT GACAACAAAT GACAACAATG AATGACCAAC TGAGTTGCAG AATTGACCGA	60
25	CCTGACTTGC TGTmAGATGT GCATTGCCTG TGACCAGTTA ACTGCTGTTT GTACATTATG	120
	ATTGTGCACG TGAAGTCTTT GCAAATGACT TTTAACATTA TGCTGCTAGA GCCATCTTTT	180
	AAAGATGTTT GGACTAACGT nCATGATGTG AATATCTG	218
30	(2) INFORMATION FOR SEQ ID NO: 1446:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1446:	
	TTTGACTTGA CATTATAGAA CACAAATTCA TTTGAAACTA TGTTTTCAAA TTTATTTATT	60
	GTTACTGGGA ATTTCACATT ATTAGATTTA TTTATTTTCT TTTGA	105
45	(2) INFORMATION FOR SEQ ID NO: 1447:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

1959

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1447:

	AGACTGAAAA CTGCATATGC AGAGGCGATG AAACAAAATG CCAT	104
_	(2) INFORMATION FOR SEQ ID NO: 1448:	•
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(a) 1010 <u>1010</u>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1448:	
15.	TTGAATTAAC TGAAGAAnTA GCAGTGCAAG CAGGATTGTT GATATGACAA CATTCGAGTC	6,0
	AGAATGGCAA CAACAACGTG ATTCGTGCAC TCCAAGCACG TGCA	104
	(2) INFORMATION FOR SEQ ID NO: 1449:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1449:	
	TATTAATTTT TTTTAATATG GAATATTCAT TGCATCGCTT TCCTATTCTT CAAGCCCACT	60
30	TTTTATCTTC ATATACATTA ATTAACCACC KTCAAACATT GTCGTTAGAT TCGCCAAATT	120
٠	GAATCTATTT TTAGCACAGC AAAAAACCGA ACTGCTGAAA TAATGCATCT CCAACAGTCC	180
35	GGTCTATTAA ACTATTTACT TATCTTTATT AAACAATTGA CATGATTTAT TAGAATAACC	240
	CAATTGGCAT GACCATGCAT CAGTAACATC CATGTTTAAT GGCTGCTGGT TTTTTAGGTA	300
	AACCAGGCCA GAGTCATGGn TGGCACCTGn GCAACGCnAC GATAAAGCC	349
40	(2) INFORMATION FOR SEQ ID NO: 1450:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>50</i> .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1450:	
•	GATTTTATAT AAATATAGCT TTTCAACAAA ACAAATGATT GAATTTCTAG GAATTGAGTC	60
	ATTAAAAAA CACTTGAAAA ATTCAGGTGG GATTGCGCTA TTGCCGGAAT TTATTGTTGC	120

	AGAAACAACA TTGaTAATTA ATCCTGAATC GAATAAGCAM GTACTTGAAT CTTTTGTAAA	240
_	AGATGTTTTT TTATAATTAT TGGTGAAAAC GTGTAGTTAT GGTGAAACTC AAAGATAATA	300
5	ATTTAAATGA GATGTTAATG AAAAAGTAAT TCAATATANA ACAGGTGATT TANATCTTAA	360
	TAAGGRITAAT TCCAGGTTGA ATTCCAATTG CGGGCATCAT	400
10	(2) INFORMATION FOR SEQ ID NO: 1451:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(ari) CHOMENON DESCRIPTION CHO ID NO. 1451	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1451:	
20	TGCGTTATAG TTGCTATTCT CAATTATGTT CGCGATAATT TTAAGTAAAA GTAAGCACAG	60
	ATATTGAATT TGATAGGAGT TAATTGATAT ATACATACGA ACTTTCATGG ATCACTTAAA	120
05	TTnG	124
25	(2) INFORMATION FOR SEQ ID NO: 1452:	
<i>30</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1452:	:
	TGTATTAAAA ACCTTCCACC TTTAAAAGCA ACAATGCGGT GTCCTTTAAA TTCAAACATA	60
	ACCATATACG AATTACTCGA TAATTCTGTG TGTTTAATTG ACAGATGTCG TGTGAATTGA	120
40	TNATTT	126
	(2) INFORMATION FOR SEQ ID NO: 1453:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1453:	
	ACTTTGGCAA CATCTGGAAT ATCATATAAA TCAAGTAACT TACCTAACCG ATGATTAATA	60

	CTAACAGTTG TTTCCATGCC TACACCTCAC GATATTATCA CTATTCATAT TAACATTATA	180
	TGTAAGAAAT TAAAATCTTT TGAAGCATTA AGATTACTTA TCATTTnTAA ATTTCAATTT	240
5 .	AAACTAACAG TAATTTATGT AGCTTTTGnA ATTCTCATAA	280
	(2) INFORMATION FOR SEQ ID NO: 1454:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1454:	
	ATATTCTTTA AATTAAACTG ATCACTTGAA TAATTAACAT TACTTAATTC TATGGCATTC	. 60
20	ATGATGATTC CTCCTCATAA ATGAACGTTA AAATATCCTG CAGTTCCTCA AGTGACATTT	120
	CGATGGCTTG CGCTTCATTA ACCAATTCTT TAACCAAATT TTCAATGGTA AAAAATTGTT	180
	TCTCTTTTAA AATAGGAACT ATTCTTnGCT CCTTAACAAA GGnCCCTTTT CCTCTAATTG	240
25	TT	242
	(2) INFORMATION FOR SEQ ID NO: 1455:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1455:	
	ATAAAATTGC AGACTTAGAT TACTCTTGTT CAGCATTTTT AATGTATATC GGTATAGATA	60
40	TTGATGTGAC AGATCAAGTG AGACTTGCAT ANTGGTATTT TATTCAGATG	110
	(2) INFORMATION FOR SEQ ID NO: 1456:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
-•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1456:	
	ACCAGTGGTT GCCTTTTTAA GTCCCGCGTG GGACAAAAAT TAACCTCTTT ACACTTGCAA	60

	AAAGCGCTTG CAATATATTT TCGATTTGTL ATTCAACMAA ACGTTTTATT LTATTCGCTG	180
	TAGTCAAATG TATACCCTTA TACTGACTCG aTAATCATTT GCTTATNATT TGAGACTAGG	240
5 .	ACATAAATCA ATGCTCTAGA ATCCAAAAAG TCACATTAGT AGTAGTTAAC CGAACGAAAA	300
	TGCACTTGTA ACAAGCTTTT TTCAATTAAA GTCAGGGGCC CCAACATAGA GAATTTCGAA	360
10	ATGAAATTCT ACAGGCAATG CGAGTTGGGG TGGGACGACG AAATAAATTT TGCAAAAATA	420
	TCATTTCTGT CCCACCTCAC TCAAAATAAA TTTCACTATC CGTAAAATAA ACAACTAACT	480
	ATTTAAGTAT CATCTCTCCC CTAATTAACA ATTATAAAAA TAAGAACCAA TATTCGAGAC	540
15	AACCTAATTA A	551
•	(2) INFORMATION FOR SEQ ID NO: 1457:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid	-
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1457:	٠
	ATCNGGGGCT GCATAAGCGA TATCAAGTGT GAGCATTGAA CGATTCAGGA CTGACCAGCA	60
30	CGCCGTTTGC CTGCTTTGAA AGATCCACCG ACAAATCCGC CAACATCGT	109
	(2) INFORMATION FOR SEQ ID NO: 1458:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 1458:	
	ACCAGAGCCT CTTTGACTTC CTAAGTCGAA TAGCATCGTT GATATAGTTA AAGATGACGC	60
	TAGATTTAGN AATCCAAACT CATAACACCT CCACCATTCC ATCACATCTG GA	112
45	(2) INFORMATION FOR SEQ ID NO: 1459:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCCCAACCAA TTTTTTAAAA AAGGGGGCCT TTGGGGGGGC CAACCAAGGG GGAACCCCTT	60
	AACCCCAATT TTGGCCAATT TTAAAGGGAA GGCCTTGGAA CCTTTTTGGG AATGGGCCGG	120
5	TTTTAAACCC TTGGTTTCCG GAAGGGGAAA ATTTTTAAAA AAACCGGAAT TGGTTGGCCC	180
	CCTTTAAATT AAAAAGTTCC CTMAAAAAAA AATTCCCCCA AGGG	224
	(2) INFORMATION FOR SEQ ID NO: 1460:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1460:	
20	TTTCGACAAT CAATTCGACG TCAGTGCCAC TCCATCTATA GTAAAGCGTT GATACTTTCA	60
	ATAATAACTG GATCACTGTC TAATTATAAA TGGATTCTTA CATCCCACCA TAATAAATTn	120
	CATATGTTCA TCACC	135
25	(2) INFORMATION FOR SEQ ID NO: 1461:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1461:	
	TTATAGAACC TCGTACTCCT nTCGACACTT GAATTTAAAT CAGAGCCGCC AGTGGAGAAG	60
	CATGAATTGA CTGGTACCAC TCGCAGAAAG TAATGATTCT AAGCCACTTG ATTA	114
40	(2) INFORMATION FOR SEQ ID NO: 1462:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50 [°]	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1462:	·
	GTTGAATTGT TGGTGATGTG GTTACACGAA TTTCGAATAA TTGTTCTTTA CGTCAAAACG	60
	TATCGTTCCA AAGTAATCCC CNGGTAATAG TTACCAACAA GTTCA	105

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1463:	
10	TTGTATGACT CTTCGGACTT TGGTAAAATT GTGAACGCTG GnTGAATGAT TTTTGTTTGA	60
	CAATTGGCCT TATCATCATT AATCGTATTT TTAAGCTGCT CGGATATAAG TTCTCAGCGA	120
15	GTTCTTTTTG ATGTATCATT AGTGTAGAAA ATAGCTGTTT GT	162
	(2) INFORMATION FOR SEQ ID NO: 1464:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 103 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1464:	
	TAAATTGGAA AGTCACATTC AANATGCGAA AATGTTTTAA AATGTCCTGT AGGTGCTTAA	. 60
30	TAGTTTTGCA TTTGCAAATT TTACTGAACC GGTTTAAACG AAT	103
	(2) INFORMATION FOR SEQ ID NO: 1465:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1465:	
	AAATTGTATA ACTACCAAGC TTATATGAAA TGGTAAACAA AATATTATCA CTTGTTTGAT	60
45	AAGTAGCGTG GAAAATATTG TATCTTTCTA AATGTACACG TTAGAAnTCA TGCTTATGTA	120
	TTACACGCGG GGCACTGGTA CCTAAGGGCC TAT	153
	(2) INFORMATION FOR SEQ ID NO: 1466:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1466:	
	TTTCAGTAAC ATATGAAAAC TTAATTAACG ATGTTCAGTA GGTTCATACA TTTTACTTTA	60
5 ;	TGATGCTTAA TTGAATTACA nTTAAGATAT GACCAGCTAA AAAGAGTTAA TGTGATATTT	120
	AACC	124
•	(2) INFORMATION FOR SEQ ID NO: 1467:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(b) Topologi. Timear	
	(with appropriate programmer) and the No. 1467.	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1467:	
20	AAGGAATTAA GTTTGCGACA CCAGCAAATA GTACTAATAA AGGAATATAT GGTAAGTCAA	60
	TAATTGAATA ACCGATATAT AAGAATATAC CTAAAATAAC ACTGACAGTT ACTTGACCTT	120
25	GAATGTAAGA TTTTAATGTA AAGTTTAAAT CAGTTAATAA ATCTACGAAA AATACTTTAC	180
	GTTCACCTTT GANAAATTTA GCAACAGCTG GGATAAATTT TTCATGGTCT TTTAACATAT	240
	AAATTAAGAA GAATGGAACC ATAATCAATA AGAAGATGGT TGAAATTAAT GATGTAATGT	300
30	ACTGTAATGA ATTAGATAAN ATATTAGNAA CGCCATCACC CATTGATTTA ACCA	354
	(2) INFORMATION FOR SEQ ID NO: 1468:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(2), 101023011 1111002	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1468:	
	TGCAAACTAG GAACAATAAT GTTAATATAA CTATGATGNA AGTTAAAAAA TAAAAAGGAA	60
45	CACTCTATAA TATGAATTAG GGTTTACAGT TTTTTGAGTA TTTTACAGTA TCAAAGTTTA	120
	(2) INFORMATION FOR SEQ ID NO: 1469:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	TCTAAATGCT GACTAAAACT AGCAACACGA GACTCATTAT TATTAGACAC GATTGTAATA	60
	GTGATTCCTT TTTCATTAGC TTCCTTAAAC CATGCTTTAA CACGTTCTGT AGGTTCTTTA	120
5	ACATCCCAAC CTACTAGCGT ATTATCTAAA TCTGTAATAA TACCTTTAAC GCCTTTGTCC	180
	ACTAACTTGT CTAAATCAAT TTGAAATATT GATTGAACAT ATGAATTCGG CATAAAAAAC	240
10	TTGCGAACTA AACCCATTTA ACTCACCTTT ACCTTTTAT AATTGAGACA CTAATGCTTC	300
,,,	AACAGTTTGA CTTGATGATA CAGCTGCTTT TTCTAAAAAT GCTTCGAAGC TCATTTCCGC	360
	TTCTCCATTT GCTAAGTCTG AAACTGCACG AACTACAACA AATGGTACAT TAAATTGATA	420
15	ACATGTTTGT GCAATTGCAG TTGCTTCCAT TTCAACCGCC ATCGCATTTG GAAATG	476
	(2) INFORMATION FOR SEQ ID NO: 1470:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 156 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1470:	
	CACCATACAT GGGTAAGGAT ACTACTCAAA TCAACTTGAA ACCAATAATn CATGACCATA	60
30	TGTGTGCCAA TGAATTCAAT TGGAAAGACA ATGATGAGAT ACTATTAAAA CGATTATATT	120
	TATTGTCACT TGTTCAAACG CACTCCTTTT CCAAAT	156
	(2) INFORMATION FOR SEQ ID NO: 1471:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1471:	a ·
	AACAAAAGTT TTGAAAAGCC GGGTGCCAGC GAAAACTTAA AAAGCACTTT ATCAGAAAAA	60
45	GCTAAGAAAA AAGATTAATA TTCATTCATT AAATATAAAT CCAATTTAAT TTGTTGTTTA	120
	AGGTCTACAA GTGTATGTTT AATATACAAT TCATCGTTTG ACGGTAAATC AGATACTTTG	180
<i>50</i>	AAATCTTGTE GCTCAACCTC TAGTAAATCG AAATCGCTAC CAGCTGAATT ATAGGTTTTA	240
50	AGTTCACCCT CTTCAATGAT TCTGTTTTCA AAGTCTTTAA TAACTATAAA TACTGGTTTA	300
	CCGTTGTTAT TAAACAACTT GTCTCTTTTG TCTAATAAGC TTATACAATC CAAATTCATA	360

	(2) INFORMATION FOR SEQ ID NO: 1472:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1472:	
	CTAGGATTHC ATCTATTTGG GATGAAAATA AGCGTTTCCT GAATCCACAA GAATATCCAG	60
15	TCGATTTAAG CCAGGCATGT TGGGGTAATA ACATAACGTT TTTTGA	106
15	(2) INFORMATION FOR SEQ ID NO: 1473:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1473:	
	TATCTTACCT ACATTGTTAT CTGATGGCTG TAATCATTAA ATCTATAACA CCGAGTTCTT	. 60
30	CCATTAATTT TCAGCTTCAT TCGACTGCCT TTTTATmTTT CGTACTATTA CGAATTT	117
35	(2) INFORMATION FOR SEQ ID NO: 1474: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1474:	
	ATGCATGGCA CTGGAAnCAG CTGGGAGATA TAGGTAGTAT CCTAAAGAAG TTCAGTTAAT	60
	CGGAGCGATT GTATTGCATG AAGGTAACAT TGCGGAGTGC CAACAGGCGA AGTAAAACTT	120
45	AACGGCAACC ATGCCTTATA TTAAATGCCC TTCCGGGAAA GGAC	164
	(2) INFORMATION FOR SEQ ID NO: 1475:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

GAGGTACGAA TANCCGAAAG GAAATACGAC CTTTAACATT CGCGCACAAA ATGAGGTCAG GCGCCTGCCT TGCCCATTIT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC 18 GCGCCTGCCT TGCCCATTIT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC 18 TGTCCACAAC AACACGATTA ATGCCATGAC (2) INFORMATION FOR SEQ ID NO 1476: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGHT GCAAGTGCAT 20 GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCAGTTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ACTGTAAAAC GTCACTTTAT AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ACTGTAAAAC GTCACTTTAT AAATCAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATCC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TTAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTTAAATCC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTAA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTAAATTTAATTCTT TAAAAAATCC TCACAAAATTT GAATATAAACT AATTTTAAATCC TAAATAAACTC ATGTACAACTTAA TAAAAATCC ATGTACAGTT AATTTTAAATCC TAAACAATTAA TTTAATA			
GAGGTACGAA TANCCGAAAG GAAATACGAC CTTTAACATT CGCGCACAAA ATGAGGTCAG GCGCCTGCCT TGCCCATTIT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC 18 GCGCCTGCCT TGCCCATTIT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC 18 TGTCCACAAC AACACGATTA ATGCCATGAC (2) INFORMATION FOR SEQ ID NO 1476: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGHT GCAAGTGCAT 20 GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCAGTTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ACTGTAAAAC GTCACTTTAT AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ACTGTAAAAC GTCACTTTAT AAATCAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATC TAAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTAAATCC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TTAAATAACTC ATGCACCTTTA TTAAAAAATCC TCACAAAATTT GAATATAATCT AATTTTAAATCC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTTA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTAA ATTTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCCTT GCAAAAACTC TCACATCTAAATTTAATTCTT TAAAAAATCC TCACAAAATTT GAATATAAACT AATTTTAAATCC TAAATAAACTC ATGTACAACTTAA TAAAAATCC ATGTACAGTT AATTTTAAATCC TAAACAATTAA TTTAATA		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1475:	
GCGCCTGCCT TGCCCATTIT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC TGTCCACAAC AACACGATTA ATGCCATGAC (2) INFORMATION FOR SEQ ID NO: 1476: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT 22 GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGCACT TATGGGTTCA ATATCGATTT TGGCACATAA AATCAAGTGAC TAGGGACTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTCATT AATTACAGCG TGATTCATCT ATTATATGT TATAAAATCT ACTTTCACTT TAAATAACC TCACAAATTT GAATATACTT AATTTAAATC TGAACTACTC ATGCCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGAACTACTC ATGCCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGAACTACTC ATGCCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TAAATAACTC ATGCCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCACT CATGAACTTT GGAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAATTACTA ATGTATCATT AATTTAAATC TGTACTTCTA ATTTGCAAAATTACTATTAATTTAATTTA	· .	ACAGCAAGAC GTGACAAATC AGATACTATT AGTCATCAGC GTTAACATGT GGATARGTGT	60
TGTCCACACA CACCAGATTA ATGCCATGAC (2) INFORMATION FOR SEQ ID NO: 1476: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT 22 (2) INFORMATION FOR SEQ ID NO: 1477: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTACT CATATATTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATCAAGGG TGATTCATCT ATTATTATGT TATAAATAC ATCATCACT AATTTAAATC TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATAACT AATTTAAATC TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATAACT AATTTAAATC TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATAACT AATTTAAATC TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATAACT AATTTAAAATC TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATAACT AATTTAAATC TAAATAACACC ATGCACCTTA TTAAAAAACCC TCACAAAATTT GAATATAACT AATTTAAAATC TAAATAACTC ATTGCAAAAA TCAACCCCACC ATGTACAGTT ACTTTCCGCTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCCACC ATGTACAGTT ACTTTCCGCTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACAGTT ACTTTTCCGCTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAACTC	5	GAGGTACGAA TANCCGAAAG GAAATACGAC CTTTAACATT CGCGCACAAA ATGAGCTCAG	120
(2) INFORMATION FOR SEQ ID NO: 1476: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TITGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGGAGGAC ACATTTACTT AAGAACTAAGA AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT TGGCACATAA ATCAATGTAC TAGGGACTAC AATTTTCCTT TCAATAATAA ATCACGGCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATACA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATCA ATCATCACTT AATTTAAAATC TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATACTT AATTTAAAATC TTAAATAACTC ATTGCACAATTA TTAAAAATCC TCACAAAATTT GAATATACTT AATTTAAAATCC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACACGTT ACTTTTCCGTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACACGTT ACTTTTCCGTT GCAAAAACTC TGTACTTCTA ATTTGCAAAA TCAACCCCATC ATGTACACGTT ACTTTTCCGTT GCAAAAACTC TGTACTTCTA ATTTGCAAAAA TCAACCCCATC ATGTACACGTT ACTTTTCCGTT GCAAAAACTC TGTACTTCTA ATTTGCAAAAATCC TCACAAATTT GAATATACTT AATTTAAAATCC TGTACTTCTA ATTTGCAAAAATACC TCACAAATTT GAATATACTT AATTTAAAATCC TGTACTTCTA ATTTGCAAAAATACCCCAATC ATGTACACTTA ACTTTCCGCTT GCAAAAATTT TAAAAAAACTC ATTTGCACAATCT ATGTACACCCAATC ATGTACACTTA ACTTTTCCGCTT GCAAAAACTC		GCGCCTGCCT TGCCCATTTT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC	180
(2) INFORMATION FOR SEQ ID NO: 1476: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGACTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AAATTCAGCG TGATTCATCT ATTATTATGT TATAAATACA ATCACGCCAT AATCTTCATT AAATTCAGCG TGATTCATCT ATTATTATGT TATAAATACA ATCACGCCAT AATCTTCATT AAATTACAGCG TGATTCATCT ATTATTATGT TATAAAATCT ACTTTAAAAC GTCACTTTAT AAATTACAGCG TGATTCATCT ATTATTATGT TATAAAATTT GAATAATACT AATTTAAAATC TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAAATTT GAATATAACT AATTTAAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCCGCTT GCAAAAACTC TGTACTTCTA ATTTGCAAAAATCC TCACAAATTT GAATAATACTT AAATTTAAAATCC TGTACTTCTA ATTTGCAAAAATCC TCACAAATTT GAATAATACTT AAATTTAAAATCC TGTACTTCTA ATTTGCAAAAATCC TCACAAATTT GAATATACTT AAATTTAAAATCC TGTACTTCTA ATTTGCAAAAATCC TCACAAATTT AAATTTAAAATCC TCACAAATTT AAATTTAAAATCC TCACAAATTT AAAA		TGTCCACAAC AACACGATTA ATGCCATGAC	210
(A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476: AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA GTGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT TGGCACATAA ATTAATAATG GTTCTCTGTC AAAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ATCTATAAAC GTCACTTTAT AAATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ATCTATAAAC GTCACTTTAT TGAACTTCA ATTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC	U	(2) INFORMATION FOR SEQ ID NO: 1476:	
AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT GCTCTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AAATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATAACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	5	(A) LENGTH: 128 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT GCTCTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AAATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATAACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480			
TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGNT GCAAGTGCAT 12: GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA 60 TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC 120 CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG 180 TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT 300 AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT 360 TAAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC 170 TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476:	
GCTCTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TTAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC AACTTACATTACATCA ATTTTCAAAAATCC TCACAAATTT GAATATACTT AATTTTAAATC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC		AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT	- 60
GCTCTTTC (2) INFORMATION FOR SEQ ID NO: 1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA 70 TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG 180 TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA 240 ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT 360 TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC 120 TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 180 TGTACTTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480		TGCAATTITG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGnT GCAAGTGCAT	120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 486	5	GCTCTTTC	128
(A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC AACTTCTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC AACTTCTCTA ATTTGCAAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC		(2) INFORMATION FOR SEQ ID NO: 1477:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477: AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA 60 TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC 120 CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG 180 TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA 240 ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT 300 AATTACAGCG TGATTCATCT ATTATTATGT TATAAAATKCT ATCTATAAAC GTCACTTTAT 360 TAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC 420 TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	0	(A) LENGTH: 641 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	5		
TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477:	
CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480		AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA	60
TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAAATAACTC ATGCACTTTA TTAAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	o	TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC	120
ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480		CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG	180
ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT TAAATAACTC ATGCACTTTA TTAAAAATCC TCACAAATTT GAATATACTT AATTTAAATC TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480		TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA	240
TARATARCT ATTACATCT ATTACTATET TATAAATRCT ATCTATAAAC GTCACTTTAT 360 TARATARCTC ATGCACTTTA TTARAARATCC TCACAAATTT GAATATACTT AATTTAAATC 420 TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	5	ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT	300
TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	ŧ.	AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT	360
TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC 480	0	TARATRACTO ATGCACTTTA TTARARATCO TORCARATTT GARTATACTT RATTTARATO	420
11 77 77 77 77 77 77 77 77 77 77 77 77 7		TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC	480
	:	AATTTCATTT GAAATAGTTA AAGTAGAACC TATATMAAGC ATTTGTCTAG CTAAATTATA	540

	GATAACTCTT ATCTTTTCA ACTGTAGGTG ACCTTTAGGG C	641
	(2) INFORMATION FOR SEQ ID NO: 1478:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
10	(D) TOPOLOGY: linear	
~	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1478:	
15	TTAACCGTGA TGCAGAGTAG TAAGTGGATn CATGCTCTGT TATGGATGAC AAGACAAAGC	60
	AGCGAATATT GCGTACTGCG ATTGATGAGC AGATGCATAT GATTGGATTG	120
	c	121
20	(2) INFORMATION FOR SEQ ID NO: 1479:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SECUENCE DESCRIPTION SEC ID NO. 1479	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1479:	50
30	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC	60
30	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT	120
<i>30</i>	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC	
,	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT	120
,	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTn	120
35	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTn (2) INFORMATION FOR SEQ ID NO: 1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	120
35	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTn (2) INFORMATION FOR SEQ ID NO: 1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	120
35	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTn (2) INFORMATION FOR SEQ ID NO: 1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	120
35	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTn (2) INFORMATION FOR SEQ ID NO: 1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1480:	120
35 40 45	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT CATAGCATTA TTN (2) INFORMATION FOR SEQ ID NO: 1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1480: TTTTGGGGGTT TTTAAATTTT AAATTCCCGN TGGGGGGAAAT TCCCTTAAAA ATTCCCAACC	120

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
		•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1481:	
	CAGTATCAAG CATAGTAAAA AATGAGGGTA GGACTGAAAA TACGGCGTTA TTGGTGGTGC	60
	ATTCACGGTA AATATGTTGC ATGACCAGCA AGTTTTGGnC TTCTGATGCA CC	112
15	(2) INFORMATION FOR SEQ ID NO: 1482:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 127 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1482:	
25	CAAAAAACAA GTTCTGATAT GCAGTAGCTG AATAATTTTG CTAGTTACAC CANAGTGATC	60
	TTCTGGTGTT TTACTTTTTA TAAATGTTTT CATATATTTC ATATGTATAA AAATGGGATT	120
30	TAGCGTA	127
	(2) INFORMATION FOR SEQ ID NO: 1483:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>35</i>	(A) LENGTH: 83 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	٠
	(b) TOPOLOGI: IThear	
40	() GROUNNET BROOKENING GROUND NO. 1440	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1483:	
	AGTGGTGTAT TGGGTGAGTA ATGCTTAACT TCATACCTGG TGCATTGGCT GTTCAGTATC	60
45	ATTATATCTG CATGGGCGAT ACT	83
	(2) INFORMATION FOR SEQ ID NO: 1484:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-

	TATTATTGAT GTTCTTTGGT TCATTCTTTG GTAATAATTT TGCACTTGAA	AATTTACAAC	. 60
	CGTTAGCTGG AACCTAGnCA AAGGGATGGG TTTAGTGGTC TATTGTGGGT	TTATTGGTAT	120
5	TCCGTGGGCC ACCCCATGGG GCCATTATGG TTTGGGAATT TTGGGAATAA	ATTAATTTnC	180
	CCAACCAAAA ACCAGGCCAA G		201
	(2) INFORMATION FOR SEQ ID NO: 1485:		-
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
15	(D) TOPOLOGY: linear	•	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1485:		
20	CTCACAGCAA CATCAAAGAG GCAGATATTA GTCAAGTTCA ACGTAATAAC	ATCTACCTTC	60
	ACAAGTCGAT AAAGGAGCAC CATCATTAAT AAGTAGATCA ACAAGTCAAC	GAGAATTTTA	120
	ATGTGCAGAA TAGAGAAGTA CACCACACAn ATAATCAAGC GATGTAATTA	CTACTACATT	180
25	TTnCATGACA GAGTGAACCT CAACAGCGGT		210
	(2) INFORMATION FOR SEQ ID NO: 1486:		
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
		•	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1486:		
	CAGGTTATGT TTGCATTAGA AGTTCTTGGA AAATCTTTAT GGAACGTGGT	TTACACCCTG	60
40	ACTITGAATT GCATCGATCT GATGAAGATA AATGAAATTG AATGGGATGG	CCDACATGGA	120
	ATGCAACCTA TGACTTGGAT GGAATTAGAT GAAGCGGG		158
	(2) INFORMATION FOR SEQ ID NO: 1487:	* * * * * * * * * * * * * * * * * * * *	•
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
50			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1487:		

	TTGCAGCATA TAGAGGTAGA GGCATCGCGA CAAAGTTATT AACGTCATTA CTTG	114
	(2) INFORMATION FOR SEQ ID NO: 1488:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1488:	
15	TGCTAAGTGA TAAAAAGAAT GATAAGCCAG GTGTACCAAT GGGTCCTGGA TTAGACCATT	60
	TGGGAGATAT CGTTGTACCA CATGTTGATC AACTAACGTT nCCACATG	108
	(2) INFORMATION FOR SEQ ID NO: 1489:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1489:	
••	CAANACGTAA TTTCATGATG AAAGTGGTCG ATAATTTCTT GAAACATCGC TTTCAGTAAT	60
30	AACGCCTGCT TTAAGGTCAC GTTCCGCATA GGTGTACTGA GGATGTTGAT GT	112
	(2) INFORMATION FOR SEQ ID NO: 1490:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) TOPOLOGI: Tillear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1490:	
	CAGAACGTTT AAAACAAAGT TGGAAAAGTT TTCTAATCGT ATTAGCTGCA TGTTTAATAC	60
45	TTATTATTGC AAGTGAAACG CTTATTTTCC TTTAGTCATT TGACCGATGT TAAAGAGGTG	120
	AGATGGTTAT TTAGAATCAT TGTATTGATT GTTTTTGCGG TAGTGATGTT CACAATTTAT	180
50	ATCTCTTATC ATCATTATAT GAATGACTTT TTAGTTACTA AGTTATTTAA TATTTCCGCA	240
	GCGACGCCAL AGTTATTATG TCTAT	265
	(2) INFORMATION FOR SEQ ID NO: 1491:	٠

<i>5</i>	(A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1491:	
10	Charattggc Caggggctca tccartatta arataggcgt acgagggatt artagaccac	60
	CTAATGAAAC GCGTTGGTTG TTGGACCTCC AGATAAATCC TGGGGGTCGG TGG	113
٠,	(2) INFORMATION FOR SEQ ID NO: 1492:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1492:	
25	ACTAAGAAAA TCCGAAATCT TTTCCGCTTC TTTTAAATAC GTAATACTTC CTTTTTTCG	60
	CTCTAAATGT TTGGCATTCA ACTCATAACT ATTCATTAGT TTCGTTAAGC CTTCTGCATG	120
	ACTCTCATTT TGAGAAAAA TTTCCAAATG GTACGAAGAT GTTTCAGGGT TATTCACTGA	180
30	GCCACCTGCC AGAAAAGCTC CTCTCAAGTA ACTGCGTCTC ATTTCGTCAT CTTGAATCAT	240
	TGAAATGATC AATTTCATGG CGnnAAAATG CCGTCT	276
	(2) INFORMATION FOR SEQ ID NO: 1493:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1493:	
45	GATGACGAGC GCCAATTATG TCACTTTTAT GGCAAAAGCT GGAACTAAAC AACCNAGCCT	60
	GCCAGTAAAA TTGGCAATTG GGACGTTCTT AGCAGGTGCG TCATACATAC	110
	(2) INFORMATION FOR SEQ ID NO: 1494:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1494:	
	AAAAAAAGG TTTTTTACCC GGAATTCCAA ANTTTTAATC CCTTAAAAAA AATTCCGGCC	60
5	AACCCCCAAA CCCAAGGTTT TTTCCTTAAC CTTGGAAnTA ACCAAGGTTT TTTTTCCAAA	120
	AAATTTTCCA AAAAAGGAAT TACCCAAACC CTTAAAGGTT TTAAAATTGG GGGGGGAAAA	180
10	AGGCCCTTTT AGGGGGGGAA	200
	(2) INFORMATION FOR SEQ ID NO: 1495:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1495:	
	AAAAAATTTG GTGCATTTAT CATATGGAGT ATTAATCTGT AGAAGTAAAG GCGATATAAA	60
	TGTTACTTTG GTAATAAAGA TTACAGCGAA CGTTATTATT GCTCAGGTCA GATCAAGAAA	120
25	TTGGTGTCCG GGTGACAAGA CTTGGTGGCG CGGTGTAGTT TGTCAGTTGT GTGGTCATCT	180
	TAAATAACGC TATCGTACGG TGTGTATCAC ATGAAGGGAC TCTTACTAAT TCTGCAAGTA	240
30	CACGTCACGC nnT	253
•	(2) INFORMATION FOR SEQ ID NO: 1496:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1496:	
	ACGCTAGCTT CTGAAAAAAT AAGTGAACTA TGGATGCAAT GANCCTATTC CTGAATGATA	60
15	TTAGACGTAG CGCACCTGGT GCAGAACGCC AATAAAAAGA CAAG	104
. •	(2) INFORMATION FOR SEQ ID NO: 1497:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGGGAGGCGC CCAAATGGCT CTATATTAAA AAAGGACTCT CAGAGCATTA ATGAAAAGTT	60
	GAAGCTCAAA AGGAAnCGAA AGAAACAAGT ATCAAAACAT	100
5	(2) INFORMATION FOR SEQ ID NO: 1498:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1498:	
	TGGAACTTTG GGGAAGTCAA ACGGTTGTAA TCGTTGAACA TAAAGTTAAA CACATTCTGG	. 60
	ATCATGTCGA NCGCGTCCAT TTGATGGATA TAACGGGAAT A	101
20	(2) INFORMATION FOR SEQ ID NO: 1499:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: IIIIeal	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1499:	
	AGTTCTGGTG CATCGTTTTT CATTGTATTT GTGACGATTA TCATTCCAGC ATTAGAATAT	60
	TATGCATTAT ATTTAGGTGT GATAGGTGCA TTTATAGGTG GTTTAACTGT TTATACACTT	120
35	TCAGGTG	127
	(2) INFORMATION FOR SEQ ID NO: 1500:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1500:	
`	TCCCCGCTTT AATACCTTCC ACGATTTCTT TAATTGCTTG CGGTTGGTCA CCTTGAGGCT	60
50	CAAAATCAGA ATGTATTTTA AAAGGATAAT GTTCAACCAT TGTCACATAT GCCTCCTCTT	120
	TCAACGTATT ATTTATATTT CCGCTCAACT CTTTGCTTTC TCATNACATA TNTTAGCAAA	180
	GTAGTCACAC AAAAAGCAAA CGTTKGTTCG TAAAAATGTC GAACAAAGAA ANACAAACAT	240
55		

	AAATACACAT TATATTAATC ATCATTTTGT TTCAACAAAT TTGTTTGAAA CATTATTTTA	360
	AAGTTAATCT TAGCGATCTT CATCTTGATG TTTATGAAAT TCGAGTTGAT CTATAATTAA	420
5	ATAACCAGCT AATAATGACA CTACATCAAT AAAAATAATC CACTCGTTAT GGAAATACTC	480
	TITATAGATI GAGGCACCAA TTAAAATTAA TGTCAGAATA GTACCGACCC ATTTACTTCT	540
10	TGTTATTACA CTAAATAATA	560
	(2) INFORMATION FOR SEQ ID NO: 1501:	,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1501:	
	ATTAAATCAT ACTHACAATT ACCGATGACA TTATTCCAAT TCAATCTAAT TCCGTGATGA	` 60
	AAGAGCCACG TTTTGGTTAC TTCGTGGGCG TGAATTATTA TG	102
25	(2) INFORMATION FOR SEQ ID NO: 1502:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1502:	
	TATGGTAGCT CCAAATGGTT GTATCGTCAC ACCATCATCT TCAAGTGCAA TGCGATGTAA	60
	TCGATTGGCT GTTGTTTCTG TTACCCATAG TACTTTTTCA TCTGTACTTA AAGCAATACC	120
10	ATTTGCTACG CTAATATTTT GAATGATAGG CGTCACTGTT CTAAAGTCCG GCGAAACATA	180
	ATAAACGCCT CCTAGTGGAT TGGTAGAGTA TCCTCTAAAA TCTGTAAAAT AAAATCCACC	240
15	TTTAGAATCA AATACCATGT CATCAATACA ATATGCTGTT GAAAGATCTT CAATAATATC	300
	TIGTAAGTIG TCACCATTIT CIGTAGCIGC AAAAATGCCI CChGGAGATI TAAAATCTCC	360
	naaaataacc aacgnataaa tcgggcanct tatggaattg	400
50	(2) INFORMATION FOR SEQ ID NO: 1503:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1503:	
5	TACAGGTAGT TAACAGTTGA TGTTAAATGG CGTACTGGAT TCTTTACGCA CGATTTTTTG	60
	TTAATAAGTA TGGGATAGCA CATTACTATA TCCTACTTAC GACTTATTGG ATATGTCNTA	120
	GCTATTCTTA AGCTCGAAAA GTTTCACAGG ATACATAAGG GACCAACT	168
10	(2) INFORMATION FOR SEQ ID NO: 1504:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1504:	
20	CTACTGATTG TGTAATGTCG TTGGTAGGCT TGGGCTGTAC GCAGTATTAG GTGTAGGCAA	60
	CTTGGCTTTT GGCATCTACC TTGTATGTGT CGTGTATCTA nGGCTGGGGC TTGCTCCTTC	120
25	AGTTGTTAGA CAGTAGGGGG TAATCTCAGG GGTGCAATGT ACTCCCTCCG TCCTAAAATA	180
	CTHTATATGC TCGTGCCGAA TTCCTGCAGC CCGGGGGATC CACTAGTTCT AGAGCGG	237
	(2) INFORMATION FOR SEQ ID NO: 1505:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1505:	
	CGCATTTACC ACCATATGAT GGATCCAnCG ACGTTTTAAT AAAGATAAAA GTGACAGTAG	. 60
40	CGGGAAAACA GGnCCATAAT TCACATCTCT TTTGAAAAAT ATGTTCAAGC TAGGATCATT	120
	AGGAGAGTCA TATTAATAAT AAAAATGTTG CAATCAATCG ACGTGCGTTG AATCTTAAAT	180
45	ACATAATAAA TGTTGTAGAA GATATGGGT	209
τ ο	(2) INFORMATION FOR SEQ ID NO: 1506:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1506:	
	AAAATGTGGC TATTGATTTT GACTTGGAAC TTTTTGAACA TTTCTCTCAA GGATTTAAAT	60
<i>5</i>	GTAGGTAACA GGGCAGGTAC TACGGTACTT nCCTATTTTT TTATGCAAAT TTTAAAAAAAC	120
	A	121
10	(2) INFORMATION FOR SEQ ID NO: 1507:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1507:	
20	ARTGACAAGG TCAGCATTAA AACCATTTAA AAATAAACGC GTTATGGTTA CTGGACGTAT	60
	ACAACGTGTT TTGTTTAAAA ATTATTTAGA TAGACATAGC ACATTTAAGC CGAATGTAAG	120
25	GATATTATTA AAAGANGTAT TTGT	144
	(2) INFORMATION FOR SEQ ID NO: 1508:	. ,
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.•
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1508:	,
,	CCGATTGAAT CTGTGTACAC TTCACCAAAG ATATCTTTCT TCGTTTCTTC AGATAAACTT	60
	TCCATTGCTT TCTTATCAAC ACTTGTTTCT ACTAATAAGT GTGTTAATTT GTGCTTnTTA	120
10	ACAAACTCAA TAGCTTGTC	139
	(2) INFORMATION FOR SEQ ID NO: 1509:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1509:	
	TCTGCCTGCC TCGGCCTCCC AAAGTGCTGG CATTACAGGC ATGAGCCACC ATGCCTGGCT	60

	CAAGTTAAAA TACAGATGTA AGACTTGACT TGATC	155
5	(2) INFORMATION FOR SEQ ID NO: 1510:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1510:	
15	ATCCCAATGC TAATGAATTT GCATATACGA TAAATAATGC TTTTTATCAT CAATAAAGCT	60
	ATGAATCTTT CAAGATCTTC ATTGAAC	87
	(2) INFORMATION FOR SEQ ID NO: 1511:	-
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	127 222 223 23 23 23 23 23 23 23 23 23 23 2	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1511:	
	\cdot	
30	ATAGGCGTTT ACCAGTTATT TTCGAATCCA TATAATTATG TTTGTCCGTT TGGTTTAATC	60
	CAATTAATTG ATTAAGTTTT TCCAATTCCT TTTTTTTTTAA TTAAAATTCC AATCCTTAAA	120
	AAAAATTGGA AAAAAGCCTT AAAAAAAATT GGTTAATTTT CCCAAGGGAA TTAAAAATTT	180
<i>35</i>	TGGGGTTTTT TnAGGnCCCT TTTGGGAAAA ACCCAAC	217
	(2) INFORMATION FOR SEQ ID NO: 1512:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1512:	
	TGACATTGCA TCGGATTATG TTACATCANG GACAACGGGC CTCAAAAAGC GGTGCACAAA	60
50	CGTTCCGTAA TCATATGCCA GTGCAATCGG ATGTAAAGAG A	101
	(2) INFORMATION FOR SEQ ID NO: 1513:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs	·

(C) STRANDEDNESS: double

	(b) Topologi: Tinear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1513:	
	GATTTTATTG AAATGATTTT ACCTGTGATC AATTATTGTA ACAAATCTAC AATAAAATTG	60
10	TCTTACTGCA TGACCTAATA ANATAGCAAC AGATATCATA CACACTTGTA ATTT	114
	(2) INFORMATION FOR SEQ ID NO: 1514:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1514:	
	ACATATACAG GTACGTGTTT AGTCCGTCGT ATACTGCAAA ATTATGTCCG ATGAAATTAG	60
25	GGGAAAATTG TAGAACG	. 77
	(2) INFORMATION FOR SEQ ID NO: 1515:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1515:	
	CCTTATAAAG TTAATGCAAG CAACATGGAC AAATTATTAN TTGAATAAAC TGCAAGAAAG	60
40	ACAACAATCA TTCTTCGGAA TGCTAGGAGA ATATATTTTA GA	102
	(2) INFORMATION FOR SEQ ID NO: 1516:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1516:	
	CAATTTTAAA TAGGATTTTT AAGACCTTGG TTGGGTTTTG GTACAATTAA TGGGGACATG	60
	ACTAGGTCTT GCCACGTTTA TATGCATCT	89

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1517:	
	GTAAGAGTGC ATAGTTTTTA AATGTTGCTT GTCTGGTnTC ATTTTGGCAC CATACAGTTC	60
	GTACCTGGAT TAGGGAAATG CCAAATGTCC GCGTAGTGAT AT	102
15	(2) INFORMATION FOR SEQ ID NO: 1518:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH; 448 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
*	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1518:	
25	GAGAACTCCT TACCACAATC AAAAGTAATT GATTTAAATA TATGAGAAGA TAAAATGAAA	. 60
	AGGTGCAAGC AGTATTAAGA ATTTAGGTAG CAAGAAAACA AGAAGTGGTA CATACGATGC	120
30	TAACCTAAAA AGAATTGGAG ATTAAAATGA TTATTAACCT TGAAACACAA CAAATACATT	180
30	TTGATTTAGA ACATGAAATT CCCTATTTTC AAGCACCTGA GAAAAATAGG ATACGCTTAG	240
	ATATTGATGT TCTCAATAAA AAGCNAATTT CTAATATTAT TAATGTTATA TTTAATAACC	300
3 5	AATCAAAGAC GAAATGTACA TTTTTGTCTG AATACTTATA TCCTGTTAAA TTTAGAGAAA	360
	AAACAAGAAT TGGTCGTTTT TTTAATATTA CTAACTGGTA CGAAGAAATC CATTCTACCG	420
	ATGAGAAGTA TGTNATTGCA ACTATTAA	448
40	(2) INFORMATION FOR SEQ ID NO: 1519:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 304 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1519:	
	ATGGACGAAA GAAGATGTCA TTGCTTTTGA AAACCTAACA AATATTAAAG TAAATTTAAA	60
	AGGTAGCGGT TTTGTGTCCC ACCAATCAAT TAGTAAGGGA CAAAAACTTA CTGAAAAAGA	120

ACTHAACAGG AATGGGCTAC HITTAAATTT AGGGATGGTA TTGGGCCACT ATTTGGTTTT TGAC (2) INFORMATION FOR SEQ ID NO: 1520: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TTPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520: ATGACGTCGC ATGCACCCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 60 TTCTAACTAAG ATAGCTAAAA TTCTAACACT TATATGGAA TAGTAACAA CTTTTGGGT 120 TCAAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGAAAAATA CACAGCTTTG 240 CACCTCCTTC TTCATCTGGAA ATAATGTAAT GCCAAGTHTC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAAHTGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (4) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear		ATTCAAATTC AGATGGTDAA GAAGAAATCT GACAGTTAAA ACTGACAGGG ATAAGTCGGG	240
TGAC (2) INFORMATION FOR SEQ ID NO: 1520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520: ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTTA GAGCGGCCGC CCTTTTTTT 60 ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 120 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGAAAAATA CACAGCTTTG 240 CACACTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAACA ATATTTACTA AGTCGTTCAA TTGTGGATTT GATAAATGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		ACTHAACAGG AATGGGCTAC HTTTAAATTT AGGGATGGTA TTGGGCCACT ATTTGGTTTT	300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TTPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520: ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 60 TTTTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTGGT 120 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTG 240 25 GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT 300 CACCTCCTCT TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAANTGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (4) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	5	TGAC	304
(A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDENRSS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520: ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 60 TTCTATTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTGTGT 120 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAATA CACAGCTTTG 240 CACCTCCTCT TTCATCTGGA ATAATGTAAT GCCAAGTTTC TGATCATTTA ACATATCACT 300 CACCTCCTCT TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDENRSS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAATTGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(2) INFORMATION FOR SEQ ID NO: 1520:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520: ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 60 TTCTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT 120 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTTG 240 GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS:	10	(A) LENGTH: 322 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT 60 TTTTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT 120 TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGAAAAATA CACAGCTTTG 240 GTAGGGAAAT GGTCCTGGAA ATAATGTAAT GCCAAGTATC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAAATGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	15		
TTTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA 180 CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTTG 240 25 GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAANTGAT 60 GTGATGTGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520:	
TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTTG GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS:		ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTT	60
CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTTG 240 GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTTC TGATCATTTA ACATATCACT 300 CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS:	20	TTTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT	120
GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT CACCTCCTTC TTCATCTGAT GT (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS:		TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATTTTAGCA	180
CACCTCCTTC TTCATCTGAT GT 322 (2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAANTGAT 60 GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC 105 (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGANAAATA CACAGCTTTG	240
(2) INFORMATION FOR SEQ ID NO: 1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: (TARATACARA CCCTTTARAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATARATGAT (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	25	GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTNTC TGATCATTTA ACATATCACT	300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521: 40 TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAANTGAT GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		CACCTCCTTC TTCATCTGAT GT	322
(i) SEQUENCE CHARACTERISTICS:		(2) INFORMATION FOR SEQ ID NO: 1521:	
TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAARTGAT GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. '	(A) LENGTH: 105 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
TAAATACAAA CCCTTTAAAC ATATTTACTA AGTCGTTCAA TTGTTGATTT GATAARTGAT GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(a-1) grayman programman, one to us a sec	
GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC (2) INFORMATION FOR SEQ ID NO: 1522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•		
(2) INFORMATION FOR SEQ ID NO: 1522: 45 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	40		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•		105
(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	45		
50		(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	50		

1983

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1522:

	GATCGTATTT CCCAGATGTA AATTCnGTGG ACAATTGGCG TCAAATAGCT TCTAGTGG	118
	(2) INFORMATION FOR SEQ ID NO: 1523:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 157 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1523:	
15	CNGCATATAA TCCCGCGACA TGTCTTTTAC GGGTGCACTT GTAATATTAT TACCCCCCGT	60
	ATAACCCATG TATATCTATA CTTTACCACA TAAAATAATT CCGGGACTAT TTGGCACATG	120
	TTTTGGGTGA ATTTCTTTAG TGGCACACCA CCCCTGG	157
20	(2) INFORMATION FOR SEQ ID NO: 1524:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1524:	
	ACTGAGGTAG GTTATGTAGG ACGAGATGTT GAAAGTATGG TTAGACATCT TGTTGATCCT	60
	TGAGTAAGAT TAGTCAAGGC CG	82
35	(2) INFORMATION FOR SEQ ID NO: 1525:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1525:	
45	GATACAAAAA AGAAGTTCAA TTTGAACTAT GAAGAAATTT ATATTTTAAA TCATATTTTA	60
	AGAAGTGAGT CTAACGNAAT CTCATCTAAA GAGATTGCTA AGTGCTCAGA GTTCAAACCT	120
50	TACTATTTAA CTAAAGCTTT ACAAAAGCTA AAAGATTTAA AATTGTTATC AAAGAAAAGA	180
50	AGTTTACAAG ACGAAAGAAC AGTTATTGTT TATGTTACAG ATACACAAAA AGCAAATATT	240
	CAAAAACTGA TTTCAGAATT AGAAGAATAC ATTAAAAATT AAATCAAGGT TAATTGCGTT	300

	AAAATTAACT TAAAATTTAA ATATTGAAGA GCTTAATTAA	400
5	(2) INFORMATION FOR SEQ ID NO: 1526:	
9	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1526:	
15	ACTGTCTAAT ATTCACTCCC TTAAAGTGTT TTTCATATTT TTCTATTAAT GTTCATATTG	60
	TAGGGTGTTG AATGCATCTA AGCATTMCAA GTTATTCTCC AAGTTCATCA ATTTCAAAAT	120
	GGAAC	125
20	(2) INFORMATION FOR SEQ ID NO: 1527:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1527:	
	CATGITTATT TATGITTCGG CTTTAATGIT GAAGAGITTT ACAAAGITTA CCGATTGCAT	60
	TTTATAATTT TAATGCATTA TTGGAGCATT GGCTATCATC TATTACTGCG nA	112
35	(2) INFORMATION FOR SEQ ID NO: 1528:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1528:	
45	GCGAAGATGA GGATGAGATG ACTAAAGGAA AATATTGAAA AACAACCAAA AAACTGATGA	60
	ACATTATTAA AAATTTACAA AATCAAATCG ACAACTTGAG CGCAAGAACh AACAG	115
50	(2) INFORMATION FOR SEQ ID NO: 1529:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
<i>55</i>	(C) Climbonson women	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1529:	
5	ATGGATCTTC CGCTTCTCTT AATTGATCAA TTAAATCAGA CATTTCATGT TTTTGTAAAT	60
	AATGATTCGC TTTAATGGAT TTTTTACATG ACATCATGAT TGCTACATCT TCACGTAATT	120
10	TTTTGATATC TACTTTTTTC TCTTCCAAAA TTAGCTCAAT CATATCTTTA ATAATTTCTT	180
10	CTACTTCATC TTTAGGGAAC CAAACTGGAT AGCTACTTAC AATATAATCA TGACCACCAA	240
	AATGTTCTAA CATGATACCT ACTTGTTGAA GCTCATTTTT ATATTGATCA ATGACTAATT	300
15	GTTCATCTTT TGAAAAATGA AATGTTAACG GGATTAATAA ATCTTGTACT TCATTGGTAA	360
	CCTCACCTAT TTNATCTCGA AAATATTCAT ATNTTATNCT	400
	(2) INFORMATION FOR SEQ ID NO: 1530:	,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 97 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
2 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1530:	
	TAACAGTCAA CCCACCCATT AATATATATT CAACGGCTGA CTGATACGAC GAACGTCAAA	60
30	GAATATGAGA GGAATAGGGA CAAGATCATC ACACATA	97
	(2) INFORMATION FOR SEQ ID NO: 1531:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1531:	
	TCATAACGGT GCAACTTAGA GCTGACGTAT AGTTCATTCC AACTATATAC GATGTATCAA	60
45	CACCATGTTC CAGTTTTAGG TTAACGATAC TGTATACCGT ATTATGTCAG NGGCACCTTA	120
	TCTTCACGTA CTTTACGGCG AGATGATGAC	150
50	(2) INFORMATION FOR SEQ ID NO: 1532:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1532:	
5	ATTCATTCTG CTAACCAGTA AGGCAACCCC GCCAGCCTAG CCGGGTCCTC AACGACAGGA	60
	GCACGATCAT GCGCACCCGT GGCCAGGACC CAACGCTGCC CGTCCTATCC TGAAGCCAAA	120
10	GGAAATGAGA TCGGAATT	138
10	(2) INFORMATION FOR SEQ ID NO: 1533:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 460 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1533:	
	GGGGnCCngg CAATGGAGGC GTGCTTGGAT GGTGCTTGGA ATCATCCCTT TGGCCTCGAT	60
	CATAAGCTTA AACTTTTGGT GCTGGnGCCA CTGGAGGGAA ATCTTCAATT CTGGCAAATG	120
25	GTAATTHCCT ATACCAACAT TTAAGGCATG TGGTAATGCT GGCTACTCCC GCTTCGTTAT	180
٠	CAGCTACATG ACAAATACAG ATGCCATCAC CTTTGCGTCC ATTTTAATCG TTGATGCTTG	240
30	GAAATGTTTT TTGTAAATAT CAATGTTATC CTTCGCTGTA TGTATCGCAT TTATATCTGG	300
	TAGCAAAAAT GTTCCAACAG AAAGCCCTAT ACCTAGTTCG GCAGCTATTT TGGCAGATGT	360
•	TGCGCTACTA CTTAATAACC ACATTTCTGG AAAATGATCA TGTGTGGTGC ACTACGATCG	420
<i>35</i>	ACTTGGTTAT CTTTATTGTT AGATAATACG GAATACGNAA	460
	(2) INFORMATION FOR SEQ ID NO: 1534:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1534:	
	TACGCTAATA AATAGTTCAC TTTTCCATTT TGTGTAGTCA GCTCATTGTA TTCTTCAATT	60
50	TGCTCTTCAT TTAATGCCGC ATAAGCTTGA TCAATAATAT TTGGATTAAG TTGTCCAATA	120
	TACTCTAACT GGTCATGATA AACAn	145
	/A) TURARUS MAR ARA TO MA 1636	

5	(A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1535:	
10	ACGCGATTTA ATCGTTCGTT CCAACGATGT CCACTCCCCT ACTAATAATT AAAATCATTA	6
	CAAATTATTT CAAACTTTAC AATTMAAACT AACAGTTTTC TCAATAAAAT GCAAGCTTTT	120
	CTCATTTGTT ATTTAGAATG ATTATGATTT A	15
15	(2) INFORMATION FOR SEQ ID NO: 1536:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1536:	
25	ATAATAGAAT CATTACAAAT TATTTCAGAC TTTACAATTA AGACTAACAG TTTTCTCAAT	60
	AAAATGCAAG CTTTTCTCAT TGTTAA	86
30	(2) INFORMATION FOR SEQ ID NO: 1537:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CROHENCE DECARIDETON, CRO ID NO. 1527	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1537:	٠,
	ACCAAACTGT AAAGCCATAT ACTGAACATA TTGATAGCAT ACTCAATGAG ATCAAATTAC ATCGTGAATT TATTATAGAA GTACCTTATA TGAATTCAAG GAAATTTGAG CTACTGATTG	3.00
		120
45	CTAACATTGA ACAACTTTCT GTCGAATGTC ATTTTAAGCG AACAAGTCGA AAGTTATTTA	180
	TAGAAAAGCT TAAAAGTGTT CAATATGATT TACAAAATAT ATTAGATGGC GTAACACNAG	240
	AGGGTACTGA TGGTTAAAAC AGTTTATGTA ACAGGTTACA AATCATTCGA ATTAAACATT	300
50	TTTAAAGATG ACGCACCTGA AGTACATTAT TTAAAACAAT TTATAAAACA TAAAATTGAA	360
	CAACTGTnGG ATGAAGGATT AGAATGGGNG TTAATACAAG	400
	(2) INFORMATION FOR SEQ ID NO: 1538:	
<i>55</i>		

5	(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1538:	
10	ATATCGTTAC TGCTGTATGT TTCAATATCT ATATTCATAA ATTTCAAATn CTGACACCTC	60
	AATTTCTTTA AAATAAGGGG CAGAACCCAC TATGACTATA GGATCTCTCA CAGGTCAATT	120
	CGCAAATCAC TCGTGC	136
15	(2) INFORMATION FOR SEQ ID NO: 1539:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1539:	
	TAAATATCTC GGCACAATGA TGCGGGATAT TTTTTTACAA TAGGCATAAA GGCTGGAAAA	60
	AACATATCTA GTGCTATGAT ACTTA	85
30	(2) INFORMATION FOR SEQ ID NO: 1540:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1540:	
	ACAATTIGIT TATTICAACA AATTATCITT ATTCCACGAT GTGCACAAGT GGTTGAAATC	60
	AGCTGAAGAC ACG	73
45	(2) INFORMATION FOR SEQ ID NO: 1541:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1541:	

	TGCAGGAATT CGATATCAAG CTTATCGATA CCGTCGACCT CGAGGn	106
	(2) INFORMATION FOR SEQ ID NO: 1542:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1542:	
15	ACATCAACTC ACCCATAATA TATATTCACG GCTGACTGAT ACGACGAACG TCAAAGAATA	60
15	TGAGAGGAAT AGGGACAAGA TCATCAC	87
	(2) INFORMATION FOR SEQ ID NO: 1543:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1543:	•
	GCTTATTCTG AAAAATATTT AAATTGAAGA AAAGAATATT CTAACTACGG AAGTGGTATT	60
30	AACTAATAAC TAGTATCCTT TATAAATAAA CATAAAAATA TTCAAACGAA GGTCTACTAA	120
•	ATAACTATCC ATAAAGTGAG TATAAGTTTG TTTGTAAAAC TGAAGTAAAA AGCATAAGGA	180
	ATTACACTTT AAATACATAT AGTACTTACG AATAGAAAAT AATCCCTTCA ACAGTAATTT	240
35	TTAAACAAAA ATAAGTGTTG TTTTATGTTG ACTCTACTAG AATAACTTGA TATTATATAA	300
	AAGTCGTCAA ACGGCACTAA TATTTANNAA ACAAATGTTT TAAGTTGTTG GATTTNAAAA	360
40	TATTGAATTA AAGTGTAAAT TTGGACTATT GGAAATTGCG	400
40	(2) INFORMATION FOR SEQ ID NO: 1544:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1544:	
	ATAACGCTAA TCAGCCACAT TCAGTATTGT TAAATGGACA CACAAGCAGT TGATGAAAAT	60

	(2) INFORMATION FOR SEQ ID NO: 1545:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topologi. Timear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1545:	
	GGCTGTTATT GTTGTGGAGT TAAAAATGAA GGAAAATTAT AAACATGGTA AGCGTGTTTC	60
15	TCGTATTACT TTACTTAAAC NAACGGTATA ACCATACCTA ACTTAGTA	108
-	(2) INFORMATION FOR SEQ ID NO: 1546:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 554 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1546:	•
	AANTATGTTT CATATATTAT GAATCTAGCC TTAATCATAT TGCATTCAAA ATAATTTTAA	60
30	AAAATGAAAA GAAAGGATTT AGCATGCAAA AATTCAAAGA CTTTTTTTAC GATGATTTAT	120
	CGGTTACACG AGGAAATTAT TTTTTAACTT TAATGGCAGC ATTTTTTATT ACTATCATTT	180
	TATTTATCGG CATAGTTGTC AGTGAAGTAC ATTTACTTTA TAGCATGCTA ATTGTATTAG	240
35	TAGGTTTAAT TCTATTGAGG CTATTCAAAA TCAATTTATT CTCTTTTAAA AAATTAACAT	300
	TGTCTCAAGT TATTTATATT ATAGGCGGTG CACTATTAAT TTATGGGTTA GATAATCTTT	360
10	ATTTATATTT TCATGACGTA CCGGCAATGA ACAACAATTA GAGCAAGCAA TACGGAAATA	420
	CACCATTCTA TATTTCTATT TECACTGTAC CATCATCCCC GCTATTGTGG aAGAAaTTGT	480
	TTTtcgcggt atgataataa gggktatctt CAGAAAACAC TTGTTTTTAG GGTTAATTGT	540
15	GTCTAGTTTA GTTT	554
	(2) INFORMATION FOR SEQ ID NO: 1547:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TAAAGCAACA CTITTAATCC CTITTGAACT TAGTTTATCC GCTAAATCAT AAGCTTCTTT	60
	TTTGCTACTT ACAAAAATCA ATCCTTGTAA AATTTCACCT GAATATCCAT AGTAATCTGT	120
5	CTTTTGAATA ATATAATTAA CTCTTTCATC AGAAGTTAAA TATCTCAGTT TAGTTACATC	180
	ATCTTCTTTA ATACCTTGAT GTACATAATC AGTCACACCA AAATAATGAA ATGGGACATA	240
10	AAATATCACT TTCTAATGCT GCTTGTAACC TTATTTCATA TGCAATATTA TAATCAAACA	300
	GTTCAAATAT ACTTAATTCA TCTGGATCTT TCTGGTGGTA GGCAGGTCAT TCCCAGCANG	360
	AACTTAGGGT TTGGAGGTAG GTTAAAATAC TCGGTTGGAT	400
15	(2) INFORMATION FOR SEQ ID NO: 1548:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1548: CGCTCTAGAA CTAGTGGATC CCCCGGGCTG CAGGAATTCG GCACAGCATA TCTAGTATTT	60
	TAGGACGGAG GGA	73
	(2) INFORMATION FOR SEO ID NO: 1549:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1549:	
	GTATCCAAGC AGCTTTTAAA CAATATGGCA TAAACATTAT TAACGGCTAT GGTTTAACTG	60
	ATGGCACCTC TTG	73
45	(2) INFORMATION FOR SEQ ID NO: 1550:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1550:	

	GTAACATGTA TAGTGAAGTG ACTACTAAGA AGNCGTATTG TGATATTGAT AGCAGCTGAT	120
	(2) INFORMATION FOR SEQ ID NO: 1551:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1551:	
15	GGTATGTATT AATTAAAATG TGGTCATGAT TGAAACAGCA ATGTAAAAAT AGCACAACAT	60
	AATTDATAAA GGAGAGAAAC GGCATGCATG AACAAGATTT TAGAATTTTA GAGGGTCAAG	120
	ATATTACTTT GCCAGAATTA GGTAGAGAAT TAGAAAATAT TACAGGACAT ACGATTGCTG	180
20	ATTCTACTGG CG	192
	(2) INFORMATION FOR SEQ ID NO: 1552:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1552:	
	CTAAGTTAGA TGCTAGTATA CAAGATTTAC AACAAAAGGT ACTGGAATCG AATTGTGAAC	60
<i>35</i>	TAGACAAACT AAACTC	76
	(2) INFORMATION FOR SEQ ID NO: 1553:	
40	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 135 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1553:	
	TGTGTTGGGG CCCCGTATAT TGAAAATTTG TTATAGGTGT ATTTCTTTGG TTAACTATTG	60
50	TTATATAACT TGTAGTTTTA GGATGTTGAT TTTGCTTACC TTGTCTGCTA TGTAATGTCA	120
	CATCAACATG ATTMA	135
	(2) INFORMATION FOR SEQ ID NO: 1554:	

_	(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
,	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1554:	
10	TTTGANATCA AATTCACTTC GCAAACGTGT CCAAGCGTGA GCAAAGGGCT AGATGATTAA	60
	TAGTTGCCCC ACTAACGGGA TCGCCCCAGT TATCCAACTT ATCT	104
	(2) INFORMATION FOR SEQ ID NO: 1555:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 100 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1555:	
25	AATAAGAAAC AMGACACTAG CTCACCACGA CGCGCACGGC CTGCGTGTAA AAATGTTGGT	60
	GGCGCGGGTT GGAGATCGTG TTCAACCAGA GCAGAAAATA	100
	(2) INFORMATION FOR SEQ ID NO: 1556:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1556:	
40	CAATGAAATT ATTTATTATT TTAAGTGCAT TAAACCCCGA TGATGGCTGT CCGGTACCAG	60
	GTGCATTTTG GTGCCCATGG TTTACC	В6
	(2) INFORMATION FOR SEQ ID NO: 1557:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1557:	
	GTCATGTTCC CATCAAAACT AATTTGTACT TACTAAAGGC TCAGCAGCGC AACAATTAGG	60
5 5		

	(2) INFORMATION FOR SEQ ID NO: 1558:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1558:	,
	AACTGGTTAC AGAAATACCA CGTTCTTGTT TCAACTTTCA TCCAGTCACT TGATCGCAAA	60
15	TTTACCAGTC TTCTTCCCTT TA	. 82
	(2) INFORMATION FOR SEQ ID NO: 1559:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1559:	_
	CCACAGCGGC ACTATAGCCA GCCCCTAATA TATACAGTAT TTGCATCTGA CTCATTGGTT	60
30	CATAAGTATA TGCAGTGA	78
	(2) INFORMATION FOR SEQ ID NO: 1560:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1560:	
	ACCATTTGCT AACTTTTAG CAGCGCAATG TTCTTATTAA CTGCTTACGC CATCTATAAA	60
	AATAAACGTT CAACAA	76
15	(2) INFORMATION FOR SEQ ID NO: 1561:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTGGAACCCA AATTTTTTTA ATTTTCCCAA AAATTGGGGG GGGACCCCCA ATTCCCTTAA	6
	GGGTTTTCCT TGGGGGCCGG GGGTTAATTC CACCCGGGGT TAAAATTTTC CCAAAAATTA	120
5	ATTTTNGAAA AGTTTTAATT TAAGGAAACC CATTNGTCCG GAATTTTTAC CCCATCCTTA	180
٠	TGGGGGGTCC CAAAGATTCC	200
10	(2) INFORMATION FOR SEQ ID NO: 1562:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1562:	
20	AACACAGAGA ATAACCAAGA GAAGACGTTT TCATCTGAAG AAAGTAACAG TAMGCCATTT	60
	ATGGAAGAAA ATCAAAACGA TGAGATAGTT ATAAAAGAAG ATTCATATAA TCCATTCGTA	120
	ACGAAAACAT CTGAAAGTTT AATAGCTGAT GATGAATCTT CTGGTTATAA TAATACACGT	180
25	GAAAAAGATG AAGACTACTT CAAAAAACAA CAAGAAATTT TACAAGAAAT GGATCAAACA	240
	TTTGATTCAA ATGATGGTAC AACTGTGCAA AATTATGAGA ATAAAGCGTC TGATGATTAT	300
30	TATGATGTAA ACGATATTAA AGGAACAAAA AGTAAAGACC CTAAACGAGG AATTCCATAT	3,60
	ATGGAATTGT TGGnCAGTCA TGGAACGTTA TTATTGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 1563:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 454 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1563:	
	TCTTCATCAT CTTCTAATTT ACCAGCTGGA ATTTCTAGCA ATGGTTTTTC TACTGGTTTA	60
45	CGATACTGTT TCACTAATAC GACTTCTTTT TTAGGTGTCA CTGCACAAAC ArCAACTGCA	120
	CCATTATGAT AAACTAATTC TCTTGTTGAC GTTTCACCGT TTGGTAATGT CACTGTATGA	180
50	ATTTCTACAT CTACAATTTT GCCATTATAA ATAACTGTTC GATCAATTGT TTTTTCATTT	240
	AAATCCATTA TAATCACGTT CCTTTAAATT CATATTATAT ATTGATACAC TATGCTTGTT	300
	AGCTAAAGTG TATCGAAAGG AGAACAGACA TGCAAAAAAA TATATTAAAA AGTGGTATTT	360

	AAATTATAGG ATTGTGCTGT TGAAAATGGG TATC	454
5	(2) INFORMATION FOR SEQ ID NO: 1564:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1564:	
15	ACATCTCGCA TCGTCACGAC TTGCTTGAAC CACTAGCAGG TCAAACAAAG CTGTACAGGC	60
, .	AACATCTGC	69
	(2) INFORMATION FOR SEQ ID NO: 1565:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
•	(with appropriate programment on the No. 1565	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1565:	
30	TCCAGAACCA TTTTAAATCC CGGGAAATAT AATTACCTCC ACTAANGTAA TATATCCAAG	60
	CCAAGACTAA TCCTCCTTAA GCCGGTTTAA GTAACCAGGT TGAGAAGGAT TTTTTGG	117
	(2) INFORMATION FOR SEQ ID NO: 1566:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1566:	
45	TATTGAGATT AACAGTCTGG GAAAAATGAA CAGCAATTGT nTAATGTGAC GATGCTGATT	60
,40	ACTITITAAC AGTATCATTI AATAACTCAG AGATGCGCTI TAT	103
	(2) INFORMATION FOR SEQ ID NO: 1567:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	(D) TOPOLOGY: linear	•
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1567:	
	AATGGATGGG ACAGCAATTA GTGCATAACG ACAATATATG CTCAATTTGT CGGCAACTGG	60
5	TTAAGAATCG TATTGTCACA A	81
	(2) INFORMATION FOR SEQ ID NO: 1568:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1568:	. •
	AATGGATTCA GTAGGTATTG GTGAAGCGCC AGACGCAGCT GATTTGAAAG ATGAAGGTTC	60
20	ACATACTTTT AGCATACCTT	80
Q.	(2) INFORMATION FOR SEQ ID NO: 1569:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
··、 30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1569:	
	TTTTTAAATA CGATTTTAAG GAGGCCATTA TAATGGCGAG TAAAAGTAGC GAATTAATGG	60
3 5	TTTTGGTTAG GAATTGGTCG TTTAGGCATT CAGGA	95
	(2) INFORMATION FOR SEQ ID NO: 1570:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1570:	
	CCCAATAAAA AAAGCCTGTT GTCACAATGG TCATAGACAC GTACATACTT TAAAGGTTTC	60
50	TGTAATATAA ATATTTCATA TGCCACTTTA AAGTTGGNAC GTTCGTATGT TGTACTAA	. 118
	(2) INFORMATION FOR SEQ ID NO: 1571:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1571:	
	GACTTGATCA ATGAAGCATT GTGTGACAAT TGGTCTGTTT GCACACCGCA CGGATTGnGC	60
10	GTCATTTATT TGTACTAATT CAAAAAACAT TGTTGTTTTC CTAG	104
	(2) INFORMATION FOR SEQ ID NO: 1572:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1572:	
•	CCGAACTGTA ATGGTCCTAA TGTTTTACTC ATACCATATT GCGTAACCAT TGAGCGGCGA	60
2 5	TTGTGTTGCA CGTCGAGCAT TGAGACCGTT GTACTCGTAA nGTATATCTC TGTACACG	118
30	(2) INFORMATION FOR SEQ ID NO: 1573: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1573:	
	AGGGATCAAA GGTCCATCCC CCATGCATTG GATAGTGGGG GATGACTTTT GATCCTATGT	60
40	TCCAGTTGCT TATT (2) INFORMATION FOR SEQ ID NO: 1574:	74
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.
	(will spoutphar description, and to the	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1574:	
	AACCTTTTGA GTAAATTCAC CAATACTCAT CCCCTTATCA TTTAACAAAC TTTTATTAAT	60
	GTTTTTGGTT ATATTATGAG TCTTTACTGC TTTTAGATTG TAAAAATTAT CGTCATAAAT	120
5 5		

	GTAATTAATG TAATAATAGA AAAGTGTATA TATCTCATAT CGCCACCTGC TATACAACTT	240
	ATTAAATAAT TAATTCCAAG ACATATTAAT TATCTAATTA TAACCTTAGT THACGTTATT	300
5	ACATAATATA AAAATATATA ATAACTTATC Cnccggcncc T	341
	(2) INFORMATION FOR SEQ ID NO: 1575:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1575:	
	ACGTGTACCA ACTTTTGGGC ACCATTGATA ATANGTGTCA TAGGGTGACT CAGCATAACG	. 60
20	GGCAAGCCTA TTAATGATAG CCAGATTAAG ACATACAGTA CATATGTTC	109
	(2) INFORMATION FOR SEQ ID NO: 1576:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1576:	
	GCTAGATTGC GGGAATTAAC AATCATCAGC GATTTAATAT TTGCACTGGA GACGTCATGG	60
	TAATAAAAA TTGATGAGA	79
35	(2) INFORMATION FOR SEQ ID NO: 1577:	•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topologi: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1577:	
	ATGATGGCTA TCATGAGATT GAGATGATAA TGACAACAGT TGATTTGAAA TGATCGTGTA	60
	ACTITICAT	69
50	(2) INFORMATION FOR SEQ ID NO: 1578:	69
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1578:	
	AAATTGTCAC ThCAGGTCAT AACCAACCAG GTGGGACTGC ACGAGCGTTA CTAATGATCC	60
10	AACGGTCTTG CTTTGTGATG AGGCAACAAG TGCACTTGAT CCGC	104
	(2) INFORMATION FOR SEQ ID NO: 1579:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1579:	
	GCTCAATAGA TACAACTATT AGGACAACGG ACTATCGTTT ACAATTTATT CCAGATAAGG	60
25	ATCGCGCAGG TCGTATGCGT AACTATGCA	B 9
	(2) INFORMATION FOR SEQ ID NO: 1580:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1580:	
	TTGTCTCTAA TAATGGnTTT GGCTTTTTCT AAAATTTCAG ATGTGGGTGC TGGTGAAGCA	60
	CCGACTGGTT AATTTTCTTG TCGTCACGGC CACTTTTTGT TT	102
40	(2) INFORMATION FOR SEQ ID NO: 1581:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1581:	
	AAGGTGCTGT TATTAGGATA ATGNATTTAA ACCCCATGGT ATGAAGGATA TCTGGAAGTT	60
	AGATTGGATA TCCCTTAACC ATGGGGGGTT TTATTTTTGG GG	102

5	(A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1582:	
	TTCAGGGGAG CTGAACATAT TGACGACTTT TGGGTCAATT CATTTTGCAT TTTACTTTTA	60
	AATGCGTTGT TGCATGTAAT TGTATTAACG ACATACATGG TGGGGCTCTA AATHAATGCT	120
15	TGACTAATTT CTTGGATGGA GACCACGATT TACCAACTCA	160
	(2) INFORMATION FOR SEQ ID NO: 1583:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	, ′
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1583:	
	TAAAAGCAAG TACATTAGAG GTTAGATCAC AAGCTACTCA AGACTTGAGT GAATATTATA	60
30	ATAGACCGTT CTTTGAGTAT ACAAATCAGT CAGGATATAA AGAGGAAGGA AAAGTGACGT	120
	TTACTCCTAA TTATCAACTT ATAGATGTAA CTTTAACTGG GAATGAAAAG CAAAATTTTG	180
	GTGAAGATAT TTCTAATGTA GATATATTTG TTGTAAGAGA AAATTCTGAT AGATCTGGTA	240
<i>35</i>	ATACAGCTTC AATTGGTGGT ATTACTAAAA CAAACGGTTC AAATTATATT GATAAAGTAA	300
	AAGATGTAAA TTTAATAATT ACTAAAAACA TCGATAGTGT TACATCAA	348
40	(2) INFORMATION FOR SEQ ID NO: 1584:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1584:	
50	AGCCAGCAGT AGATAGATAT ATTAATGAAT TCTTGGAGAA AGGTAGCTCA AATTGTCCAA	60
	TTGAGATATT GAA	73
	(2) INFORMATION FOR SEC ID NO. 1585.	

5	(A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1585:	
10	GTAAGGAATG GTCACGTATT CCACACTTCT ATATGAATTA TTATGTATAT CAATACGCAA	60
•	mTGGTTACAG TGCAGCTCAA AGCTTAAGTC ATCAAATTTT AnCAGAAGGT AAGCCAGCAG	120
	TAGATHGATA TATTAATGAA TTCTTGAAAA AAGGTAGCTC AAATTATCCA ATTGAGATAT	180
15	TAAAAAATGC TGGTGTAGAT ATGACAACAC CTGAACCAAT TGAACAAGCT TGTGAAGTTT	240
	TTGAACAAAA ATTGA	255
20	(2) INFORMATION FOR SEQ ID NO: 1586:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) Torologi: Timeal	r
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1586:	
30	TTATTAGGTG AntCCATTGG CAACATTGAT TGGTTTGTCA TTAGGACAAA TTTTATTATA	60
	CATTGGCGTT ATTTTTACTA TCTTATCTGG TATTGAATAC TTTTATAAAG GTAGAGATGT	120
	TTTTAAACAA AAATAAATAT TTGTTTATAC TAGATTTCAT TTTCATATGG AATCTAGTTT	180
35	TTTTAATCCC AATTTTAGAA ATTAGCCACG CAATTGTTTA TAATGATATA TTGTAAAACA	240
	ATATTTGTTC ATTTTTTAG GGAAAATCTG TAGTAGCATC TGATACATTG AATCTAAAAT	300
	TGATGTGAAT TTTTAAATGA AATACATGAA AAAATGAATT AAACGATACA AGGGGGATAT	360
40	AAATGTCAAT TGCCATTATT GCTGTAGGCT CAGAACTATT	400
	(2) INFORMATION FOR SEQ ID NO: 1587:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 561 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1587:	
<i>55</i>	CAAAGCGTCT ATTATTGTTT GATTTTGATG AAACATATTT TAAACATAAT ACAAATGAAG	60

•	AAGTGATCAC TGCTGTATTG ACAGGAAGTA CATTTCAAAG TGTCATGGAT AABATGGATC	180
_	AAGTTAATAT GACGTITAAA CCATTACATA TCTTTTCTGA TTTGAGTTCT AAAATGTTCA	240
5	CTTGGAATAA TGGCGAATAT GTTGAATCAG AAACATATAA AAAGAAAGTC TTGAGCGAAC	300
	CATTTTATT TGAAGATATT GAAGATATAT TACGTCATAT TTCTGCGCAA TATAATGTCG	360
10	AATTTATTCC ACAAAGAGCA TTTGAAGGTA ATGAAACACA TTATAATTTT TATTTTCATT	420
	CAACAGGTAA TCACAACAAT GATAGTCGTA TCCTAGAAGC ACTINITCAGA TACGCAAATG	480
	ACCAAAACTA TACAGCGAGA TTTAGTCGAA GCAATCCATT AGCTGGTGAT CCTGAAAATG	540
15	CGTATGATAT TGACTTCACA C	561
	(2) INFORMATION FOR SEQ ID NO: 1588:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1588:	
	CCAACAGTTT TATCATTATG GCAAGTTCTG TTAAACCTGC TGAGAGTTAT TTTGCACTGA	60
30	TTGCAAAACC AGAAATTGG	79
	(2) INFORMATION FOR SEQ ID NO: 1589:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 ·	(with applying programmer and ID No. 1500.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1589:	
	GCAGATATGC AGCAATTTAT AGAGGACTAG TAAACGCATA TATGACTTAC AGCTTTCAGA	60
45	CAAATAGCTT TGC	73
	(2) INFORMATION FOR SEQ ID NO: 1590:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TCATTTTATG GTTGATCATA GGCGTCGTCT TTTTCCTTGG GGATTTTATC	TTTAAATACA	60
	CAGATTGGCG C		71
5	(2) INFORMATION FOR SEQ ID NO: 1591:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs		
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
			·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1591:	·	
-	ATACAATACA ATTCACACCA TATATGGATA AAATGCAAGA TGCAATTACT	GCAGTTGCAC	60
	AGTGCAAGTA GCAATACC	•	78
20	(2) INFORMATION FOR SEQ ID NO: 1592:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 168 base pairs(B) TYPE: nucleic acid	•	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO; 1592:		
	CCAATTAATT AAAAACCGGA AAACCAATTT TTTAAACCAA TTAAGTTAAA		60
	AATTGGGCCC CAAACCTTGG AAAAAGGTTT AATTTTCCTT TCCCAATTTT	CCCAAAATTT	120
35	TTAAACCCAA AAATTCCCGG TTTTGGGTTA AATTTCCCTn GGTTAAAT		168
	(2) INFORMATION FOR SEQ ID NO: 1593:		
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1593:		
	TGCTAGAAAG TATAGAACCT GGTTCAAACG CATGGTTTTA TGTCCCTTTT	TAAACnGATG	60
50	TTTATTAAAA AAATATGGAA ATTGGCCACG TCCGCCAATT TCCTTAGAAA	AGAACGT	117
	(2) INFORMATION FOR SEQ ID NO: 1594:	•	
*	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1594:	•
	AGACGAAGCC AAAAAGTTAT TCGCCAAATC TGAAATATTT TCAAAGACCT TAAAGGCGTA	60
10	AAATAC	66
	(2) INFORMATION FOR SEQ ID NO: 1595:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1595:	
	ATTITATITA GGCCAATAAC TGnCTACTTC TGAAATAAGT TGCTTTGCAT AGTCTGACGC	60
25	GGGATGTTTG GATAATATCT TCTGTGTTAT TGCATTGCAA	100
	(2) INFORMATION FOR SEQ ID NO: 1596:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		•
00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1596:	
	GACCAGACGG CCGTAAACCT GGATGAAACC GTCCATTAGA TTCTGAAGTT GGTATTTTAC	. 60
40	CTAGAACGCA TGG	73
	(2) INFORMATION FOR SEQ ID NO: 1597:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1597:	
	CTTTATAAAA TTGTCTTTGA CTAACAGGAT TTTCAACGCT ATTCACAAAC CATGGTTTAA	60
55	CATATT	66

5	(A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1598: TATGGCACCC TCTTTGAThT TGTGACCGTT TTTGGTAATT CACCATTATT GTACGAACCA	60
	TGGAATTCGC TGCCTTCCTT TAGGCAATAA CATAATTATA TTTATCCCCT TCTTGTCACT	120
15	AGAGGTGCTG ACAACACCA	139
	(2) INFORMATION FOR SEQ ID NO: 1599:	
2 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	(
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1599:	
	CTCCTCTGCA TGCACATCTT GTTGTAGCAA GGTTCACATG TAATTTATTA AATCGAAACT	60
30	CTATCCAACT ATGTTATAAA GTTCATTCTA AACAAATAAG T	101
	(2) INFORMATION FOR SEQ ID NO: 1600:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1600:	
•	TTGTACCAAG GTTCACATGT AATTTATTAA AGCGAAACGC GTATCCAACT ATGTTATAAA	60
45	GTTCATTCGT AAACAAATAA GTATAAAAAT TCAATATTTT TATTACTAGA ATATGGTTAA	120
•	ATACATTTAT TTCTTATAAn AATTTGATGT TTAAGATATT TTGCCAAATT GA	172
	(2) INFORMATION FOR SEQ ID NO: 1601:	
50 55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1601:	
5	TTGGCACTGG CCGTCGTTTT ACAACGTCGT GCACTGGGAA AACCAAAnCA CGACGTTGTA	60
	AAACGACGGC CAGTGCCAAG CTTGCATGCC TGCAGGTCGA CTCTAAGAAG GA	112
	(2) INFORMATION FOR SEQ ID NO: 1602:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 679 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ'ID NO: 1602:	
20	TGCAATGGTT AATCATCTCA TATAACAACA CATAATTTGT ATCCTTAGGA GGAAAACAAC	60
	ATGACAAAAC ATTATTTAAA CAGTAAGTAT CAATCAGAAC AACGTTCATC AGCTATGAAA	120
	AAGATTACAA TGGGTACAGC ATCTATCATT TTAGGTTCCC TTGnATACAT AGGCGCAGAC	180
25	AGCCAACAAG TCAATGCGGC AACAGAAGCT ACGAACGCAA CTAATAATCA AAGCACACAA	240
-	GTTTCTCAAG CAACATCACA ACCAATTAAT TTCCAAGTGC AAAAAGATGG gCTCTTCAGA	300
	GAAGTCACAC ATGGATGACT ATATGCAACA CCCTGGTAAA GTARTTAAAC MAAATAATAA	360
30	ATATTATTTC CAAACCGTGT TAAACAATGC ATCATTCTGG AAAGAATACA AATTTTACAA	420
	TGCAAACAAT CAAGAATTAG CAACAACTGT TGTTAACGAT AATAAAAAAG CGGATACTAG	480
35	AACAATCAAT GTTGCAGTTG AACCTGGATA TAAGAGCTTA ACTACTAAAG TACATATTGT	540
	CGTGCCACAA ATTAATTACA ATCATAGATA TACTACGCAT TTGGAATTTG AAAAAGCAAT	600
•	TCCTACATTA GCTGACGCAG CAAAACCAAA CAATGTTAAA CCGGTTCAAC CAAAACCAGC	660
40	TCAACCTAAA ACACCTACT	679
	(2) INFORMATION FOR SEQ ID NO: 1603:	•
4 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1603:	
	CATTTTAATT GATATAATTT AGACTTTAAC ATTTCATGCT GTTCACGGTT TTAATTTGAG	60
	ACGTCATTTG GTATAACAAC TATAC	85

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CROWINGE DECORTORION ORD TO NO 1604	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1604:	
	ACTGGTGTGA ATAGCTCCAG CAATTTCTTT AACCGCGATC ATAATCAACG TCACCTTTTA	60
15	ATTTGCCA	. 68
	(2) INFORMATION FOR SEQ ID NO: 1605:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		*
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1605:	,
	TGGGGGGTnT TTTTGGGTTG GGTTAAAAAA AGGGAATTGG CCCAAGGGGG GAATTCCCTT	60
	AAAAAAACCC CCAACCCCCT TGGGAAATTA AAAATTGGGT TAACCGGGA	109
30	(2) INFORMATION FOR SEQ ID NO: 1606:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1606:	
	GCTTATATAC ATGTTCCATT ATAAAAGGAG TACGAACGAA AGTAACGCAT GACGTTAATT	60
	TAAAAATATT GTAATAATTA TGGATTAAAT TTAAAACCAn GGGGTATTCC AT	112
45	(2) INFORMATION FOR SEQ ID NO: 1607:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		•
5 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1607:	

	GTTCAAGTTG GTAACCTAAC AACACGNAAT TAGTTTAAAC GTTTGG	106
5	(2) INFORMATION FOR SEQ ID NO: 1608:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 83 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1608:	
15	CACACTGATA CCATAGGATT TATGATAGAT CAACAGCATG ACCAAATGTA TGACCTAAAT	60
	TTAAAAATTT ACGTACACCT TGT	83
20	(2) INFORMATION FOR SEQ ID NO: 1609:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1609:	•
30	AAAAGAATAA AGTCACTGAA CAATGGTCTT TCACAATGAT GTTGCGTCAA TGCACAAGCG	60
	CATTATGTHT GTGACTTGGG CATTTTGGCT TATCAGCTGA ATATTATACG CATTTACATC	120
<i>35</i>	CCAATTAACG TA	132
	(2) INFORMATION FOR SEQ ID NO: 1610:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1610:	
	TTTAATGCAT ACGCTTCTCG CTTAGCAATT TCTTTGCACG TCTAACAAGC ATTAACGCTC	60
50	TTANTACTAT AATCACAACA AAACCAGCGA AATATAACAT GCGTATA	107
	(2) INFORMATION FOR SEQ ID NO: 1611:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1611:	
5	TTCGCACCTG GTATCGTTCA AACCACCAAT GATGGCCCGT CTCGCCGTGG CAACAGCCGA	60
	AGACCGCAGG TAAACCCTGA ACGC	84
	(2) INFORMATION FOR SEQ ID NO: 1612:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1612:	
20	ACTCACATGT ACGATAACAC CCTTCGTAAA TCCATCTTTG GTTTGCCAAG TTCGTCGTTG	60
	TAAACTGTCT ATACTCGTTA AACCGCTACA TGTTTTCCTA AAnCCTGTGC CTAAATGCTT	120
	TACTGAA	127
25	(2) INFORMATION FOR SEQ ID NO: 1613:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
-		
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1613:	
35	CGTTCAACTT TTTCAATTTC TAACGGCGTT TTACTATCTT TATCTGTAAC TAATTCAACT	. 60
	CCAAACATTA AGCCTCGTCC TCTTACATCA CCAACATTTC GATGACGCTT CAGCGCATGT	120
40	AACTGTTTC	129
	(2) INFORMATION FOR SEQ ID NO: 1614:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1614:	
	nCAACTAGTG GATTTAANAT ANACATAATT ATAAATGCAA ATGCTAATAG CTGAATACCC	60

	GCACTAGGTG CATAATTTGT GTATTGAGCA AATAAAGCTA ATACAATGAT TGTAATTCCT	180
٠	TTAATGACAA ATAAAGGTAA ATTTAATCGT TTTAAAGGTT GGTAAATTAA AAATACAATT	240
5	GCAGCTATAT GCGAGCCACT AACTGCCAGC AAATGATATA TACCTATCTC TTTAACACGT	300
	TCCTTAAATT GCTCATTAAC TTCTTTTACG TCACCAGTAA TCAATGCC	348
10	(2) INFORMATION FOR SEQ ID NO: 1615:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1615:	
20	GAGCTCCACC GCGGTGTCGC CCGCTCTAGA ACTACTGGAT CCCCCGGGCT GCAGGAATTC	60
	GGCACAGCAT AT	72
25	(2) INFORMATION FOR SEQ ID NO: 1616:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1616:	
35	CATCACGTTA AATCATAACG CGTGACGTGC TTTTGCTATT TGTCTCTCGG TATCTCTATA	. 60
	TCT	63
40	(2) INFORMATION FOR SEQ ID NO: 1617: (1) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1617:	
50	ATTGAATTCA AGGGTGGAAC TCATGAATTG GCTGGAAAAA GGTAGATTTA ACTGGATGGT	60
	TGNAGCCATA TATCGGTGCG TTTATTTATT TGGTATTTTA AAAATCAACC TCG	113
	(2) INFORMATION FOR SEQ ID NO: 1618:	

5	(A) LENGTH: B0 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1618:	**
10	GTACAATAAA GTGGTAAACA ACATGCCAAT GGAAAAAGGG ATTAAAGGTG TTTATGTCAT	60
	TCTTAAAGAT AGTAACGGTA	. 80
	(2) INFORMATION FOR SEQ ID NO: 1619:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20 '		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1619:	
25	ATCTTATGTT TTTTTCCTAA AACTTCTGCT ACTTCATTTA TTTGATGTAT GGTAGATAAT	60
:	TCTGTTTGGA TACTCATATC AACTTTTTCT ATCATATCTG AAATCTCTTT THTGGCA	117
	(2) INFORMATION FOR SEQ ID NO: 1620:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Ÿ
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1620:	
40	CGATAAACCC TTCGTAATCA ATCTTTGGTT TGCCAAGTTC GTCGTTGTAA CAGTCTATAT	60
	CGTTAAAAGC TACATGnTTT CCTAAGCCTG TGCCTAATGC TTTACTG	107
	(2) INFORMATION FOR SEQ ID NO: 1621:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1621:	
55	AATATCGTGT CTCTGTCCAG TGCTGTCCAA TCAATTTTGA TCCACCGATT GTCATACGTA	60

	(2) INFORMATION FOR SEQ ID NO: 1622:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1622:	
	ACCATCTGAC ATCATCAATT ATGAATTAAT GATGATATTA AAAATAAATT TGAAACATTG	60
15	CCAATTGATA GTGCC	75
	(2) INFORMATION FOR SEQ ID NO: 1623:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1623:	
	TACCTGTGTA TCAGCTCTAT TAACAACCTA ACATATGTGA ATAATTTGCG ATCCTTGTTG	60
30	ATAATGCTGT AATTTGAC	78
	(2) INFORMATION FOR SEQ ID NO: 1624:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1624:	
	GCAAGCTTTT GCGGCTTCTG ATGCACCATT AACTTCTGTA ATTAAACACA CAAAGTGAAA	60
	CAGGTAGGTA ATGCAAAACT GCAACGGACA ATCGA	95
45	(2) INFORMATION FOR SEQ ID NO: 1625:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ATTGCGATTA CACAGTAGTG AATGAGATAT TTGACATGAA AGCTCCTGCA GCTTCTAAAG	60
	AAGAGTTAGC AGGTTT	76
5	(2) INFORMATION FOR SEQ ID NO: 1626:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1626:	
	AAAAGCTAAA AAAGATTATC AGGTGTATCA CAAACTCAAA TTCTCATTAC CATTTATCTC	. 60
	AGTGTGAACG TCTTAATTGA GAACTAATCT NAATTGAGAT ATTAGTCATA TAAGGATGGA	120
20	CAAGCA	126
	(2) INFORMATION FOR SEQ ID NO: 1627:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1627:	
	TGATACGATA GAACATAGTT CAGCACATTG TTTGTTGAAA TTGGATATTA CCGCCATTTT	60
3 5	TTCACAATAT CAATAATACC TGAACGTGTT GGTTnTTCCA CATTATGATT GTACAT	116
	(2) INFORMATION FOR SEQ ID NO: 1628:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1628:	
	ATTTTGTCCT ATCTTGAACA AATCCGATTT TTCTCAGACA CTGAATCCAA AGTATTCATG	60
50	TACCATAAAC CATCTGCATG TTGATTTATG C	91
	(2) INFORMATION FOR SEQ ID NO: 1629:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
c		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1629:	
	ACAGAAAGTC AAACAGTAAA AGCGGCAGAA TCAACTCAAG GTCAACACAA TTATAAATCG	60
10	TTAAAATACT ACTATAGCAA GCCAAGTATA GAGTTAAAAA ATCTTGATGG TTTGTATAGA	120
	CAGAAAGTGA CAGATAAAGG AGTATATGTT TGGAAGGATC GAAAAGATTA TTTTGTTGGC	180
	TTGCTTGGTA AAGATATTGA AAAATACCCT CAAGGTGAGC ATGATAAGCA AGATGCATTT	240
15	TTAGTCATCG AGGAGGAAAC TGTTAATGGA AGACAATATT CAATTGGTGG TTTAAGTAAG	300
	ACAAATAGTA AAGAATTTAG TAAAGAAGTC GATGTTAAAG TAACAAGAAA AATTGATGAA	360
00	TCATCGGAAA AGTCTAAAGA TAGTAAATTT AAAATTACTA	400
20	(2) INFORMATION FOR SEQ ID NO: 1630:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1630:	
	GCTTTCCTTT TCGAAATCTA TAAATCTAAT CCATTGAAGT AAACTAATTA TGATAATTAT	60
	TAATTCTATA ATTGTnGTTA TCTTTAAATA ATTTGGAAAC CTTTCATAAT CTAAACCAAA	120
3 5	AAAGAAAGTT AGACATGAAA AAAGTATCAT AAATAATGAT GCTAAACTTA AGGCTTGTGC	180
	ACCTGGCTTT CGAAGAATGT CTATATTTTC CTTAGTAGTC ATATTTACCT ATCTCCTATA	240
	CATTGATTTT GTAATAGCAT ATTAAGTATT TAAAGTTATA AGTACTTAGA TTCTTTTCGA	300
10	TTAAAAGTAT AAAAGCCTAA AATTATCTTT ATATTATTAT TTGATGACAA CTTTATGGTC	360
	TCTATTGTTT TTTACTTAAA CGCTAAAAAG CTANACAAAG	400
15	(2) INFORMATION FOR SEQ ID NO: 1631:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1631:

55,

	TCTAGAGCGA	70
5	(2) INFORMATION FOR SEQ ID NO: 1632:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 62 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1632:	
15	CAACGAAGAT ATTCAAGTGT TCAGTCATTA TTTTTGACTG CTAATGAAAC TGATTCTTGT	60
	GG	62
	(2) INFORMATION FOR SEQ ID NO: 1633:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25 .		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1633:	
30	CTAATGATTA GATTCAAACT AATAAAGACT ACAAAAACAA GTTGATAATG GTAAAGATAT	60
00	TATCCAACTT GACATCTAAA G	81
	(2) INFORMATION FOR SEQ ID NO: 1634:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
• •	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1634:	
	AATTTCACCT TTGTCTAGTA ATTTATTTGT GTAGTGTAAT CATTAATTGT TTTAATATCT	60
45	AGT	63
	(2) INFORMATION FOR SEQ ID NO: 1635:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 579 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1635:	
	ACCAACTAGC TAAATGCCAG CGCGGNATCC ATCTCANAAG TGCACAGCAA GACCGTCTTT	60
5	CCAACTITTG AACCATGCGG TTCAAAATAT TATCCGGTAT THAGCTACGG TTTCCCGAAG	120
	TTATCCCAGT CTTATAGGTA GGTTATCCCC AGTGTTACTC ACCCGTCCGC CGCTAACATC	180
40	cAGAGAAGCA AGCTTCTCGT CCGTTCGCTC GACTTGCATG TATTAGGCAC GCCGCCAGCG	240
10	TTCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG ATGTTTGATT AGCTCATAAA	300
	TACTAAATAA TGTTTGTAAC TAATAGTTAC GTTTTTGGAA TTAACGTTGA CATATTGTCA	360
15	TTCAGTTITC AATGTTCATT AATGTTCAAT CTCTTTTATT CTACTTCATT TATTTCTTGA	420
	AGTCAATAAC TTTTTGAACG ATTACTTTAT TTATTCTATA TTGTTTTTAT AGTTATTTCA	480
	ATGGLAAGTn TTACACTTTT GaaATTCTTC TTTAAAAACA ACTGCGTCGt TTTTGaCGcT	540
20	TTATCaTATT ATCMACTTTG GGAATTTAAA GTCAATAAC	579
	(2) INFORMATION FOR SEQ ID NO: 1636:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C), STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1636:	
	TCGACATTAA GCAACGTTCT TCGCAAAAGG TAGCGAGCGA CACGAGTTAA CTTTGCACGT	60
<i>35</i>	TTCATTATT	69
	(2) INFORMATION FOR SEQ ID NO: 1637:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1637:	
	CTGTGACTTC GTCGCGATGA CCTTCGCCGT TGTTCTCATG GTAAGCTTTA AGTATCGTCG	60
50	ATGCAGTCng TTCGCCATGT GCGCCAGCAG ACTGGTTGTA ATGTCGCCTC GTCCGT	116
	(2) INFORMATION FOR SEQ ID NO: 1638:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	,

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1638:	
	ACAACATTTA GGTACTTTCA CGCATATCAC TACAGCTCAA CGTGATGATT TACCAAATCA	. 60
10	AATTTCACAA G	71
	(2) INFORMATION FOR SEQ ID NO: 1639:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Torobodi. Tilleat	
20 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1639:	
	GCGTGGCTTT GTGATTAACA TTGACAAGCA CGTGCAACAA CATATTCGAC GCGATAAAGC	60
25	GACATCTAAT ATT	73
	(2) INFORMATION FOR SEQ ID NO: 1640:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1640:	
	CGCGATCATT TTCATTTCTA ATTAATCTTC CAAGTCCTTG TCTAAAACGT GTAACTGCAT	60
40	CAGGTAATAC ATATTCCTTG AAAGTTGAAG TGAATTCAGA ATCCATAAGC CAATATTTTG	120
	CATTATGCTT GTTCATAAAC GGTAACTTCG CTATCATCAC ACATTTAATA CCATTTGCTT	180
	GAAAATCAAA ACCTTCAAAA AATGTTGACG TACCAAGCAG TATGGCCTTA TCAAAATTAT	240
45	TAAACTGTTG TACTATTTTA TAATTTTGGT TCTGCTGTTG TGTTAATACA ACATAATCTT	300
	CAAATTCTGG CAATTCATTT AAGCATATCT TGTACCATAT GCATCATTTT ATAACTCGTA	360
	AATAAGACTA AACATTTTGA TGACGTTATA GTCGTATATn	400
50	(2) INFORMATION FOR SEQ ID NO: 1641:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1641:	
	ATTGTTGTAC CATGTATACT AACAATTGTA ATGTCTCATT TCAGTAAACA AAAAGCGAAA	60
5	GACATT	66
	(2) INFORMATION FOR SEQ ID NO: 1642:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1642:	•
	ATTTCGTCGG GAATAAATTT TGCCATTACA TAGAAATATC TAATAGATAA CGAAAAAGTA	60
20	TCGTATGTAT TTTTAATATA GTGTAAAATA TTATATGTAA AATAAAATGT AGGTTTTTAG	120
	TTAGAGGCAT TATAAGANAA TTTTGAGTAT AGGTTAGCTT TTAATTATGA ATCTTATTGA	180
25	AATTTGATTA ATAAAAATAT GATAGGGGAT TAAAATGAAA CTATTTTATA TCGTATTTCT	240
	TATTATTATA TGGCTGAATA TATTTTTAGG AAATGAAATC ATCCATACAC TGACTGTTTT	300
	AATAACAACA TTGTATATTG TTAATTCACG ANAGGGGATT AAAAATGACA GAGTTGAATA	360
30	ATATTATAAA CGCGCNTGCA ATCNTTGTTT GAGTCCGGAA	400
	(2) INFORMATION FOR SEQ ID NO: 1643:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1643:	
	AACTAGAGGA GGACATCCTA ATGGAAGCAA AACCCGTTGC TAGAACAATA AGAATCGCAC	60
45	CTCGTA	66
	(2) INFORMATION FOR SEQ ID NO: 1644:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1644:	
	TATCAATTTC ATATGCGATT TGGCCTTGCA ATAATTAGGT CTCACCTTGC CATATCTTTA	60
5	CCTAAGCAAT ACTTG	75
	(2) INFORMATION FOR SEQ ID NO: 1645:	
10 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1645:	
	CATTCTCCTG CATCATAAAA ATCAACAATT GTATCATCAA AGTGTATCAA AATATTTTAA	60
20	TATCCCAATT	70
	(2) INFORMATION FOR SEQ ID NO: 1646:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1646:	
	AGTGACACTT TCGTTCCACC ACATCGTAAA GAAGTACTTC AAGCACGTGA AGATGACATC	60
<i>35</i>	AAAGAAAAG TTG	73
	(2) INFORMATION FOR SEQ ID NO: 1647:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1647:	
	CTGTGATTGG TGTTGTGATT GTCTTGCTTC CTGGTTGTCC TTCTTGTTTC GCTCGCTC	60
	CGCCGGGTTG T	71
50	(2) INFORMATION FOR SEQ ID NO: 1648:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 115 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1648:	
	AACTATAGAA AAATTCGGAA TTATACCAGA AATGGAATAT GAAATGGAAG AGGTTAAACA	60
10	AAnCGAGCAA TATATTAGAG AGCAAGAAGA AGCTGGAACA ATAGAGGCGA TAACA	115
	(2) INFORMATION FOR SEQ ID NO: 1649:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1649:	
	TGTTGTCATG ATCTGAAAAG TCAAAGTCAA TAGAACATTG GCTTTGGCTT TTTATTTGG	59
25	(2) INFORMATION FOR SEQ ID NO: 1650:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1650:	
35	ACCGATAATA GTACACGGCA TAATGNAACA ACTTGGCATG CACCCTTTTT ACGTTCCTTT	. 60
•	ATCTCTGCAT GATTGTCATG TTCATCATGG TTTGGCTTGC ATTAATAGAG AGGGTTGACG	120
	CAGAA	125
40	(2) INFORMATION FOR SEQ ID NO: 1651:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1651:	
	TGATTAACGC GAATGCCACT TTTACTACCA ATGTTCCCAA AGCTGCTTCT GACAAACGCC	60
	ATTGTACTCT G	71
55		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1652:	
	TCACTACATG CACCATAAAT ACAGTATGAA CGTATTGAAA TGGGCATTAC ATGATACAGA	60
	(2) INFORMATION FOR SEQ ID NO: 1653:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1653:	
25	TTAATTGAAA CAATTGACAA ATGCAATTTG ACGCCAAACT TTGAACTTTG AATGGATTAT	60
	CACATTATGA TIGITCATCC ATGGnCAATT AGCATGGACG TATTACATTC TGGATTATCA	120
	AGC	123
30	(2) INFORMATION FOR SEQ ID NO: 1654:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) L'ENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1654:	
40	CTATGACGTC GCATGCACGC GTAACTTGGG CCCCTCGAGG GATCCTCTAG AGCGGCCGCC	60
	CTTTTTTTT TTTTTT	76
45	(2) INFORMATION FOR SEQ ID NO: 1655:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1655:

	TTTTAAATTT TCGTGAAATC GGAAATGTAC GATTAGTTAT TAAGCGTTAG AATGTGTGAT	120
_	ATGTGAACCT GGTATTGACG GCGCT	145
5	(2) INFORMATION FOR SEQ ID NO: 1656:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	*
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1656:	
	TTTAGAATTC CAATACGCTA TTGCCAGCGA TTTAGCCACT TGTGGGTAAT GATATTGAAG	60
	GTGTTAGTCA AGT	73
20	(2) INFORMATION FOR SEQ ID NO: 1657:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1657:	
	CTTCTGAAAA GTAGTAATGT AACCTATTGG ATGCGAATGA ATCCCCAAAT TTAGTGGACG	
	TATGTGGCTT CATCTTCAGA ACCTGTATCT GGT	93
35	(2) INFORMATION FOR SEQ ID NO: 1658:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1658:	
45	AAGTTAACAT GCAAGTTGAC GATGTAATGA CTCAAAAAGA GTGGAAACAA AAACACGA	. 58
	(2) INFORMATION FOR SEQ ID NO: 1659:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1659:	
	TTAATCCCAC AAACAAATGT ATGAAATTGA GTCAGTGATA TTAAATATGG GCTTGAAAGT	. 60
5	GTCTA	65
	(2) INFORMATION FOR SEQ ID NO: 1660:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1660:	
	TGCATTTTTG TAAGAACGCA AAGCATTGTA AATTAGTTTT TATAAATTAG GATATTATCA	60
20	TGTGTATTGA AAACAATGAA GTGTGCTATG A	91
	(2) INFORMATION FOR SEQ ID NO: 1661:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1661:	
	ACATATCTGT CCACACAACA AGGACCATTT GTCTGAAGGG ACAGTGAGTG GGGAATATGT	60
		60
3 5	(2) INFORMATION FOR SEQ ID NO: 1662:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40 .	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1662:	
	TGGGGTTTTA ACCAGGGGAC CTAAAACCAG CCCCATTTT CCAAGTTTGG ACCCCAAATT	60
	CCCnAAATTT AAAAAAAATT TGTTTGGGGT CTAACTTGGG CCGGTGCCTT CCTGCCTAAA	120
<i>50</i> :	TITAGCCCAT GTCTAACATA GTACTTTGGG AACGTAAAAG TTTAATTTA	169
	(2) INFORMATION FOR SEQ ID NO: 1663:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 677 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1663:	
	TGGCACAATT GCACCAATTA AATGAATAAC TTTATCATTT TTATATACAG GTACAACAAT	60
10	CGCTTCTTTT ACGAACTCAG ACTGGCGTAA TTGTGTTTCA ATTTCTTCTA ATTCCATTCT	120
	GTAGCCATTC AATTTGATTT GGAAATCAAT ACGACCTTGA ATGAACCATT GACCATTTTC	180
	AAACTTCGCT TTATCACCAG TGTGATATGT ACGAATACCG TCATCGAAAT TAAATACTTC	240
15	AGCTGTTTTT TGGTCATTTT TTAAGTATCC TAAACTTACA CTTTGACCTT CGATAACAAG	300
	TTCACCTTCA TCTGTAGTAG ATAATCTTGC GCCTGGTCTT TCAACGCCAA CAGGTAATGT	360
00	CGGATATTGA TCTAAGATTT CTTGTGTAAT TTGAATACTT GTAACTGCTA CCGTAGCTTC	420
20	AGTTGGACCA TATGTGTTGT AAATCGTCGC ACTTGGGAAA CGGTTTACTA ACGCTTTTGC	480
	TGCTCTGTGA GGTAGAATTT CACCACAGAA GAAGAATTCG TTAAGACTAC CATATTGTTC	540
25	TTCATTAAGC GTTGGTAATA ATAAACACAT TTCCATAAAT GATGGTGTTG ATACCCAAAT	600
	GTTAATCGGT GTTGCTGTTA GCATTTCATT TAATAATTTA GGTTTATTAA TCATGTTTTT	660
	ATCTACAAGA nTnAAnG	677
30	(2) INFORMATION FOR SEQ ID NO: 1664:	
35.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1664:	
	GTTACAACAA TAGTGGTATA AAACGGGAGC AATTAGAGAT CAATATATGA TTATTAAGAG	60
	CA	62
45	(2) INFORMATION FOR SEQ ID NO: 1665:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1665:	

	GTTTACGCAA ATGATAGCTC GGTAAAACAT GAGCAACATG TTGAAGCCAA TTTGGAAATG	120
	TGTTTATCGG AAACCACAAT CCACCTAATA CTGCTAAACC AATTGTTACG ATATTAGCTA	180
5	AAGCACTTGT TTTTTGAATA TCATTTAACA AAGAACCATA ATATGCCAAA AGTTATTAAT	240
	AGAGACGCAC CTAACCATAA AAATATTCCT GACTCTAACC ATTGAACTGC ACTCATTGCA	300
	ACACCTTTAT AAAAATGTCC AACCATAAAA ATAACTAATA TC	342
10	(2) INFORMATION FOR SEQ ID NO: 1666:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1666:	
	GTCCAAGAAT TCAAAAACGT TTTCAACTTC GGCCAAAGCC CAATTTnTCT TTGTGGTTTA	. 60
	ACTITITAAT TITGAACGIT TIAGGGCATA AAAAAAAAA GG	102
25	(2) INFORMATION FOR SEQ ID NO: 1667:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1667:	
35	TTGATAGTAG CCATAATCAT ACCACTTAAA TAATATGTTT GATCATCGGC ATAATTTTTA	60
	TTTATTGTCt GTTCGCAATA TTTTGAGCAT TATCATAATT ACCACTAGTC ATATCATCTT	120
40 .	TG	122
	(2) INFORMATION FOR SEQ ID NO: 1668:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1668:	
	AGAGATGAAA TTAAAATCGC AATTGAAAAT TTCAAATCAC GATGAGAGTG GGACAGA	57

.

5	(A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1669:	
	AACTACTGCC AATATTAATA GCATTGGTAC ATCTTAGAGG CATTGAATTC CTTACTCAGA	60
	CTCATAATGC	. 70
15	(2) INFORMATION FOR SEQ ID NO: 1670:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1670:	•
25	TTGTCTGATA TAATCCATTT CGATTGGACT CCACACGTTA CACCGATACC TTCTTTACCA	60
	GCCCGACCCG TAC	73
	(2) INFORMATION FOR SEQ ID NO: 1671:	v
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
<i>35</i>	(b) lorobodi: lineal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1671:	
40	GAAGAATTGT ACTGTTAAAG TGACTCTAAA CTATCGCGGA AATAACAGTG AAATCACCAA	60
	TTAGACTAGC GACACTGAAG TCATTAAAAA CAGACATTTG TAGTGGTGCn CTTATCACCG	120
	CAAATACAAG AGAGTTTCTC	140
45	(2) INFORMATION FOR SEQ ID NO: 1672:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AACAACGTTT ACTATTGGCA CAGAACGGTT GGTACTTAGT CTAATACCAT TGTCATCAA	. 59
	(2) INFORMATION FOR SEQ ID NO: 1673:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1673:	
15	ATCTCTTTGA CTTGAAGGAT TGGATTTAAA TCTTGGTGAT TTGGGCCGTG AAATATTTCC	60
	AGAAAATTCC TCAGACGTAT TAGTATAATT GTAACGnTAC ATTCTAATAT ACCTTTCTTC	120
:	GATG	124
20	(2) INFORMATION FOR SEQ ID NO: 1674:	4
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
2.5	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1674:	• •
	CACCACCACC ACACACACA ACACAAACAC ACAACCCCCC	. 60
	AACACACCAA CACAMCACAA AAACCCACCA CACACCAC ACACCAACC	109
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1675:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1675:	
45	THETCAACTE ATTTATEAAA TEECAGAGCA TATEGECETCA AAGGTTCTTA ATCETTAAGC	60
	CAGACCACTG GAGGACCATT AGATGCAGCG TTGCTTTCAA G	101
<i>5</i> 0	(2) INFORMATION FOR SEQ ID NO: 1676:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1676:	
	TTTTTAAAAT TTGNAAATTT TAGACCTTAT TTCACGTGCG ATTTAATCGA TGTGTTAATA	60
<i>5</i>	AAACAATACT GGCATTCAAC ATGTAATCCG ATAATAAAAT AAGGTTGCAA TTATGTTATT	120
	GCATATTTTG TTTATTACTT AGAATAATAC GATGGTTAAG ATGAAATATA TGACAAAGAT	180
10	AAATAATGAC ATTAAATTCA AGATGTTTAC GCCTTTTAGA TCTTTTTTAA GCATTTTAAA	240
10	TCCTGTCACT TCKACATTAC CGACTAAGAG TAATAAGACG ATAAATACCC ACCAATTSTC	300
	TTTTGGAAAA CTCATCGTCG TTAATGCTAA GACGAATAAT AACAACACAC CCATAATAAT	360
15 ·	TCTCAAAATG CGAGTAAATA CAACTTCCAT TTTAAAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 1677:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1677:	
	TCTTACTCAT GCATATGAGT GCAAGGGCCT GAGCATTCAT CAGCAAGATT AGAGCGATTT	60
30	TTAC (2) INFORMATION FOR SEQ ID NO: 1678:	64
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1678:	
	ACAGCTGATT TATTAAATGA TACTAAGTCC AAAGGCATGC GCATTATATC AGTTGGTACA	60
	TTTCA	65
45	(2) INFORMATION FOR SEQ ID NO: 1679:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1679:	1
	AGCGCCACCA ACTGACGAAT TAGGTGGTAG TTGGACACTA TGGAAAAATT TAGCGCGACA	60
5	AAGTCCTGAA TTTGGTAATC CTGATAAGTT TTGCCAAAAT ATTCCTANAA AAAGTTGGTT	120
	TGTTTCAGCA ACTTCTACAA CAAACAATAA AGAGATTATC GATACAATAG AAAGTATTTG	180
10	TAAACGTGAC CCACTTGGCA GGCAAAACAG TTACAGGCGG TATTATTACA ATCAATGATT	240
	CTGCATGGCA AATGAGTTTT ACAATCAATC GTGCAGCAAC AGTTTGAAAG ACCAACCTGG	300
	AAAATGGAAA TATCTACATG GGGTTTGATG CCTTATGATT CNGGNGTAAA CGGCGGTTGA	360
15	TG	362
	(2) INFORMATION FOR SEQ ID NO: 1680:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1680:	
	AGATACTICA GATTIAGCAT CATGAAGCAA CTTTAAAAGC AATCGCTGAC GCTGGTATTC	60
30	AGCCCGAGG	69
	(2) INFORMATION FOR SEQ ID NO: 1681:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1681:	
	TAACCATTTC TTTTGACGTT TTATGTTGTT TTAAGAAATA AATACCAGTT AATGTA	56
45	(2) INFORMATION FOR SEQ ID NO: 1682:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1682:	

	(2) INFORMATION FOR SEQ ID NO: 1683:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1683:	
	CCCCAACACA ACAAACAACA CACCCACCAC CCAACCCCAC CACACCCCAC CACCAC	60
15	ACCCACCACA ACACCACTICA CCAACACACA CCACACAACA ACCCCACAC	j09
	(2) INFORMATION FOR SEQ ID NO: 1684:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1684:	
	ATTATGTTCG CGATAATTTA AGTAAAAGAA GCACAGATAT TGAATTTGAT AGGAGTAATT	60
30	GT	62
	(2) INFORMATION FOR SEQ ID NO: 1685:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1685:	
	CATAAGGTAC TTAAATTAAG GCATATCTGC TGTCTAGCAG TCGCATAAAT CATTAGA	57
45	(2) INFORMATION FOR SEQ ID NO: 1686:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1686:	

	(2) INFORMATION FOR SEQ ID NO: 1687:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1687:	4
	CTTTATAGTA TATTGCTTTT TGTTTTTCTT TTTCGTCATA TTTCACTTTT AAATAGATAC	60
15	CTGCAACACT AATTAATATG ATTAACATAA TACTAGTTAA TATTAADATT	110
	(2) INFORMATION FOR SEQ ID NO: 1688:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 214 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1688:	
	AATTACTAGT CTGCTTGTCC AAAGATTATT TATATTCTAG CTCAACATTA ATTTCTTTGA	. 60
30	TTTTGGTACC ATCTATCGTG TCACCCATGC GATGCGGTTG TAGTTTTTT GTAAGTTCGA	120
	AAGTATAAAA CTTATCATCT TCCATTTTAA CTACAATTTT ACCTTTTCTA TTATTAACAG	180
	CACCATATAA TTTTTCTTCT TCCATCAATT TTTT	214
35	(2) INFORMATION FOR SEQ ID NO: 1689:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1689:	
45	GCTAGTTGTA ACGTGCTTTT TCACCACCAG ATAAATCATA ATATCTTTTA ACATCTCTG	59
	(2) INFORMATION FOR SEQ ID NO: 1690:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1690:	
	CCAAACTTTA TAATATGAAA TGCTTGGTAA TTACAAAGAT AAAATCATAC TCACG	55
5	(2) INFORMATION FOR SEQ ID NO: 1691:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1691:	
	TAGACAGCAA TCCATTGCTA TAGGGGTGGA TATCTCATTT GCGTTTGGAG CTGTGCTTGT	60
	TATG	64
20	(2) INFORMATION FOR SEQ ID NO: 1692:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1692:	
	TGCATGGGAT TGCAGCTAAG AGAATCATAA AAATATATTA CTTTAATAAG TGTAGTA	57
	(2) INFORMATION FOR SEQ ID NO: 1693:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(5) 10102001. 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1693:	٠
45	CGATGTGTAC GTCTCACCTG ATTTCGCACG GTAAGCTAGT GCATATTCAG CACCGCTACT	60
	CGCCCAGCCT AGAC	74
,	(2) INFORMATION FOR SEQ ID NO: 1694:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1694:	
	AACTTTTCAG ATGTTGATAG CTATAGATTT AGGCGCTATT CACCANGTCT ACATGCAATA	60
5	CGTACGTTAT AATGCACTGC AACGAATCGC GCGTTATGAG TTGGTAATTG TTGTTCAATA	120
	TTGGGTGTAT AGTTTTCAAC GTGGTTACAA GCAACTACCT AA	162
10	(2) INFORMATION FOR SEQ ID NO: 1695:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1695:	•
20	AATTATCTCT ACACCTTTTC TTTCACATAA TTGACGCAAT ATAATCCCTA TATCT	55
	(2) INFORMATION FOR SEQ ID NO: 1696:	•
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1696:	•
	ATGCAACGTT GGCATTGGGA AATGGTCCTG CCTAAATTAA CACGCAATAA AATGTG	56
35	(2) INFORMATION FOR SEQ ID NO: 1697:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1697:	*
	ACTGTGTAGA AGATGCTATT ATTGTAAAAC ATAGTTTTAA TTTTATTTTC TGATATA	57
	(2) INFORMATION FOR SEQ ID NO: 1698:	
<i>50</i> .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1698:	
÷	AAAATTTTCC CCCGGGAACC CGGTTTTTTA AACCCCCCGT TTTAAAAAAA TTTTGGGGGG	60
5	CCCAAAATTT CCCAAAAAAA nAAAAAATTT TTTTTTTCCC GGGGAAAAA	109
	(2) INFORMATION FOR SEQ ID NO: 1699:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1699:	
•	GTGTTAACGT GGATTATATC AANGAGGCGG TCAGGTACAG TCCACACGCA CAGCGCACAG	60
20	AAGTATCACA TCCAGTAAAC AAGGCTAGTA CAGCATTGCA	100
	(2) INFORMATION FOR SEQ ID NO: 1700:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1700:	
	AAGGTTAAAT GAATTAGGTT GATCAATGCT CTATACTCAT TGCTAAGTCA ACGCACCTTT	60
<i>35</i>	ACCACCTTTT CCCAACTCAG TAAGGCATTC GACGTATTTC TTAGCCAAGn TTACATATCT	120
	ACTCTGCAC	129
40	(2) INFORMATION FOR SEQ ID NO: 1701:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1701:	
<i>50</i> .	CAAGAGGAAC AACTCGGTAC TGCGCATCAG CAGAGATGGC GAAATCACAC TTAGAAGACA	60
	AGG	63
	(2) INFORMATION FOR SEQ ID NO: 1702:	

	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1702:		
10	TATTTAATAA ATCTTCAATA CCTTGTTCAT CAGTTTGTTG ATAAATAAGA	CCTCTCCATT	6
	TTAAATCTTC AATTAATACA TTCGTCATTA TTATTTCCTC CTATTTATAA	TTATTTATTG	120
	AATACTTGTT AAAATACTTT AAAGKTTTTT GAACGTAAAA AAAACCCTTA	CAACAAATAT	180
15	GTAAGGGCGC GATTGCACGT TACCACCAAA CTTAAACATA ATCATAAGAT	AATGTTCACT	24
	CTATTAATGA TACGTTCATT AATAAACGTA GGACATGTTA GTTATAAAGG	TGTATTCATA	300
20	TTATTAAAAA CACTAGTTCA CAGCGACCAC TAGCTCTCTG ATGATTTCAA	ATAATATTAC	36
20	TTGTCCTTTT ATCCTATTCT GTATGCATTT TCCCTAATTA		400
	(2) INFORMATION FOR SEQ ID NO: 1703:		
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1703:		
	TCAATATTGA TATCGAAACG CTTTGCAGAT TGATATAAAT TATCAGAATC	AAGTAATTCA	60
35	TTTATTTTCT TTGGTGAAAG TACTTGGAAA ATACTATACT	TAAAAATGAA	120
	ATGAAGTATG GAAGTTGTTG CTTTGGGTAA GCHAAATTTC TAATACATAC	TGATTAAACT	180
40	GTTTGTTTAT TGnGAATTGC AACGCATC		208
	(2) INFORMATION FOR SEQ ID NO: 1704:		
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
			٠
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1704:		
	AAGCCGATGT AATTATTTAT GCAACACCTG TTCTAATGCA CAAAGAAATA	TCTTAGCGAG	60
55	CTTATAG	•	67

	(A) LENGTH: 54 base pairs	
5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	٠
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1705:	
	CCAACTTGCA TGTTATTTTA AGCTGACTTT CCACCAACTT CTGAGTTTGT GGCC	54
	(2) INFORMATION FOR SEQ ID NO: 1706:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 61 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1706:	
25	CAACTACACG AAAGGGTAGT GCTTCAAGAT AATAACGTCC AATTATTAGG AACTGTGGCG	60
	A	61
	(2) INFORMATION FOR SEQ ID NO: 1707:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1707:	
40	ACCATTCCAA ATGAACCTAA ACCACTTGAT ACGTTGACGA CAACAGGTTG TTCA	54
	(2) INFORMATION FOR SEQ ID NO: 1708:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 10102001. 1211001	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1708:	
	AAATTTGAAT AACTGTACAC ATTTTTTTGA TCATAGTCTA TATACTTTGT GAATTAATT	59
	(2) INFORMATION FOR SEQ ID NO: 1709:	
<i>55</i>		

5	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1709:	
10 .	GCACAATAGC CAATTAGATG GGGCCGGTGC GGTAACATTT TGCTTCATTC CTGCATTAT	59
	(2) INFORMATION FOR SEQ ID NO: 1710:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1710:	
	TTACAATTCA ATCAAGTTCT TCATTATCAG ACGAAGAAAT CCACCGTATG GTAAA	55
25	(2) INFORMATION FOR SEQ ID NO: 1711:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	,
30	(D) TOPOLOGY: linear	
-		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1711:	
	TTTCTGCTTA TTGTCATTCG ATATCGAATT ATTAGAAAGT GCAGATTTCG CATCAG	56
	(2) INFORMATION FOR SEQ ID NO: 1712:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1712:	
<i>50</i>	TAAACCTTTA GGATTGCTGG CAATAGTAGT GCAGTTGGCT GGACTTGTCA TGCCC	55
	(2) INFORMATION FOR SEQ ID NO: 1713:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	Init appropriate programmer and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1713:	
5	CAAGAGGATT CGTGCAnTGA ATTCATGGAG ATATTTAGAT CTTTCACTGG AGAGAAAATA	60
	AAAAGAAGAA AAGAGTAACC TTTAGATTGC TGGATHTGTG CAGTGGCTGC TTGCGTGCCT	120
	TTAGGTGGCA TAAGGAGGCT ATACGCAGAC AACCACCGTC CCGGGGTTTT ATTGTACACT	. 180
10	GTGTAGGACG CAGACTTTAT GTGGTTG	207
	(2) INFORMATION FOR SEQ ID NO: 1714:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1714:	
٠	TGGTTATCGA CTGCTCGTAT ATTTTGACTG TTTTGACTGT TGTTTCCGTA GCAATACTAT	60
25	CTCCTAAGCC TTTCATTGGC ATTG	84
	(2) INFORMATION FOR SEQ ID NO: 1715:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1715:	
	GTTTGAATTG ACTGACTTCG TTTTACCGCG TGTTTAATAT TGTTATACAT ATAT	54
40	(2) INFORMATION FOR SEQ ID NO: 1716:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1716:	•
50	GAAGCCTGTC AGTGGATCAA ATTATTGAAG ATAACTTGGG TGGCATTTTT GGAAAGTCCA	60
	AATGCTGGGA ATGGTCA	77

5	(A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1717:		
10	GGGCCCTTTT TTTCCCAAAA AAAAAAACCC CCCCAACCCC AATTTTGGnC	CCCCTTCCCC	60
	TTTAAAAATT TAAAAATTGG GCCAAAAGGC CCCCCCAAAA AAAACCCCCA	` ATTGGAATTG	120
15	GAAAACCATT GGAACCAATT CCATTGAACC AGGA		154
	(2) INFORMATION FOR SEQ ID NO: 1718:	· .	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1718: ATTGTCTACA CTGCCACTTT ATTTTCATTA ACCATTTCAC AAATGTGTTC	ኔ ጥሮ ኔጥጥ ሮኔ አር [']	60
30	ATGAACATCA ATTGTTCAAT TACATCGACA CCTGATGCCT AAnCACGCAC		120
35	(2) INFORMATION FOR SEQ ID NO: 1719: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1719:		
	TTCATTTGTT TGTAAAAGTG GCATTTCTAT GTCTTAAAAG TGACGAAACT	TCAC	54
45 50	(2) INFORMATION FOR SEQ ID NO: 1720: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1720:		k

	(2) INFORMATION FOR SEQ ID NO: 1721:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1721:	
	TTTGGATTAT AAATTGACAT GTAAGTACGA GGCAGCTGTA CCCGATATAT AATTGCTAAG	60
15	AGTTAGGGCT G	[^] 71
	(2) INFORMATION FOR SEQ ID NO: 1722:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1722:	
	TTTTATCTTT ATTACTAAAA CCAACTGCAC CAAAGTTTGC AGTCATTACC ACACGTTTAA	. 60
30	CACCCGCATG TTCTGCAGCT CTTAAAATAC GTTGTATACC TTCAATTGCA GGCTTCGCCA	.120
	TCACTTCTGC ATCGTCTGTT TTACCGAAAA ACACCGGAGA TGCTACACTC AAGACATACT	180
	TGCAATCTTT CATTGCTTCA TCCCAATGTn CATCTTGTGA TAAATCCGCT TCGACAAACA	240
35	TTAAATCGCT CTGTGGAAAT GCCCATGTCT TGCATTGTTT NAATTACTTT ATCAGCTTTA	300
	CTTAAATCAA GNATCGTCGT TTGTA	325
	(2) INFORMATION FOR SEQ ID NO: 1723:	·
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1723:	
io ·	CAGTATTGCA GTCACGACAA TGTGATGACT AAATTATCCA AAGTATGAAT TCCATGCGGC	60
	ATTAATCCTA G	71
	(2) INFORMATION FOR SEO ID NO: 1724:	

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1724:	
10	TTGCAACGAT ATTAGGCTAT CTAGTCGGCA TATTTGTAAA ACAAGATCCA ATT	53
	(2) INFORMATION FOR SEQ ID NO: 1725:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1725:	•
	ATCTATTCAT CTTCGTACAC GGACAGGAAA TGAGTCCAGT AGATGCACAT TGGGAATTAA	60
25	TCGAAGCTAG C	71
	(2) INFORMATION FOR SEQ ID NO: 1726:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1726:	
	CATCTTGCAG GTCTACATTA TAAAATGTGA AGTTTTCTAC GATAACAATT GGGAAACTCA	. 60
40 40	GGGCATCTC C	71
	(2) INFORMATION FOR SEQ ID NO: 1727:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1727:	
	TTCnTTTTTA AAAATTCCCC ATTCCTTTTT AAATTTCTTT CCCGCTGGAT TAAATGGATT	60
	TTAAAAATTC CACCCCAACT TAAAATTAAA TGGCTTGTGG AAAATTAACG GGATTGGCAT	120

	TCCAGCTTAA ATGGTTTTTT TGGAGGCTTC CACGTTAAAA ATGGCGGGTG GCTTT	235
5	(2) INFORMATION FOR SEQ ID NO: 1728:	
3	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) TOPOLOGI: Timear	
•		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1728:	
15	TAGAGTGGCT ATAAAGCTAA GTTCAATTGA CCAATTTACA ACAGGTTATT GAGGACAATA	60
	A.	61
,	(2) INFORMATION FOR SEQ ID NO: 1729:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1729:	
30	ATCACCAAGA AGTTCTAATG CTTGGTATAA ACGTTGAATA CGACGTTCGG TATT	54
	(2) INFORMATION FOR SEQ ID NO: 1730:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1730:	
	CGTCCCGAAG CGTTGGAGGC GGGAACATCC AGAGTAATTG GCACAGATTA TGACCATAT	59
45	(2) INFORMATION FOR SEQ ID NO: 1731:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>50</i> .	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1731:	

	(2) INFORMATION FOR SEQ ID NO: 1732:	
	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 105 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: Tinear	
		•
10		
, ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1732:	
	TATGTGGTGT TCAATGCAGT GGTCATTATG GTGCATCTTA CCAGATTCGG CATTCTTATT	(
15	ATAACTATAC TTGTAATAAA TGGCGACATG CAGACACGnC AATAC	10
	(2) INFORMATION FOR SEQ ID NO: 1733:	
	(4) appropriate displaying	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1733:	
	TTTACGTTCC ATAGCAAAGT GATACAAACG TCAGCATCAA TGTAAGGCAT AGATCATAGT	
	(2)/INFORMATION FOR SEQ ID NO: 1734:	
30	(2) INFORMATION FOR SEQ ID NO. 1734.	
	(1) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(with appropriate appropriate and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1734:	
10	TTCCATCATA CATTCGCGTT TTACTTTTCT TCTGGTATGA TCAAATATTC ACATAA	5
	(2) INFORMATION FOR SEQ ID NO: 1735:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 57 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(D) IOPOLOGI. IIIGGI	
0		
	() CECITENCE DECORTORION, CEO YOU	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1735:	
	AND DECEMBER OF A COMPANY OF THE PROPERTY OF T	_
	AAATGGGGAT GAAACAGTTA GTGTACAGGT GAAAGCTTAA CAGCAGCTAC AATTGCA	

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1736:	
,,	GATTTGCAAT TAAACTTAAA TGTAATTTTT CGGAATGTGT ATTTGGTTTA CTTAAAGTAA	60
	A	61
15	(2) INFORMATION FOR SEQ ID NO: 1737:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1737:	
25	AAAGAAGCTA AAGAAAAAGT TGATAAAACA GCAAAAGTGA TTATTAGCTA CAGCATT	57
	(2) INFORMATION FOR SEQ ID NO: 1738:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1738:	
	CAATAATATC GCTAAAACCG CCATTTGTAC CAAATGAATT TGATAATGCT GCAG	54
40	(2) INFORMATION FOR SEQ ID NO: 1739:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1739:	
J U	TAGAGCCCAA CCGGCAACCC ATCCATGGAA ATTACCAAA ATAATACATT GACCCCAAG	59
	(2) INFORMATION FOR SEQ ID NO: 1740:	

	(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	,
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1740:	
10	CCTTTTGGm AATTTAAGGG GGTTCCCAAC CAAATTCCCC CAAATTTTT TGGGTTAAAA	60
	AAACCCGGCC CAAAAATTTA AGGGAATTTG GAAAAAGGTT TGGTTCCCTT TTTTTCCCAA	120
	GGCCCAAAAT TTGGAA	136
15	(2) INFORMATION FOR SEQ ID NO: 1741:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1741:	
	CATTCAACCA ACGACTGACA ACAGAACATT TAAGAGTCTA GGACATTGAT TGA	53
	(2) INFORMATION FOR SEQ ID NO: 1742:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1742:	
40	GCTCGTCTGA TTCAGTCACA AAATTGTCTT GTTATACTTG TCACCTATCA TC	52
	(2) INFORMATION FOR SEQ ID NO: 1743:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1743:	
٠	TGTTATTTAA AGAGGCTCAA GCTTTCATAG AAAACATGTA TAGAGAGTGT CAT	53
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 1744:	

5	(A) LENGTH: 94 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1744:	
10	TCTGAGTTAA AGACGTCTCA CTTAAAGCTT TAGCAATTCC AACAATCAGA TATCTTCACA	60
	CGTGTTATAT GTGTCCATTA ATATATCCTG TGGC	94
	(2) INFORMATION FOR SEQ ID NO: 1745:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1745:	
25	GGAAAAAnn TTTTTAAAAA AAGGGAAAAG GGAATTGGGG TTCCCGGCCC CTTTTTAAAG	60
	CCCCCAAATT AAGGAAATTT TAAATTTTGG GGAAGGGGAT TTTCCACCGG TTAATAAACC	120
	GCCGATTTTG AGGGGGTTGA ATTAATTGGC CCAAATTTAA AAACCTGGAT GCTGGGTCCA	180
30	ATTTTTTACC GGGACCAATT GGTCCTGCAT GA	. 212
	(2) INFORMATION FOR SEQ ID NO: 1746:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1746:	
•	TATCTTCCGA TGAAGAACAA GATGCACAAG AAGTACGCCA ATGATTTAAG AAAGTGGT	58
45	(2) INFORMATION FOR SEQ ID NO: 1747:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1747:	

	AAAATTAAGn CCTTTTTAA CCTTTCCCTT CCCCAATTGG GGCCT	105
5	(2) INFORMATION FOR SEQ ID NO: 1748:	
Ü	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(5) 10.02001. 11.001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1748:	
15	AGTGCCTATT ACTTTGATTG ATGTCCAAGT TTCCTATCAC ACAACTTAAT TT	52
	(2) INFORMATION FOR SEQ ID NO: 1749:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 95 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
٠.,		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1749:	* 30 at
	AAAGCATCAT CCGAACTCCA ATGATTATAC TCCCTAGATA TTATTATGTG ATGCTTTGAG	. 60
30	CATTAATTAG AGATGGGACG ATTCCATGAA AGATA	95
	(2) INFORMATION FOR SEQ ID NO: 1750:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 63 base pairs	
<i>35</i>	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1750:	
	TTGACACATC TACTCACATT AAAAGTAGAT GAAGCGTTGA GATTAACATT TCCACATTTA	60
45	CAA	63
	(2) INFORMATION FOR SEQ ID NO: 1751:	
	(i) SEQUENCE CHARACTERISTICS:	
	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs	
50	(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	TUGATATITE AGACACGUIG CIGIAATAAA ACATCUTATA AAGTATATAC CAAGATUTAC	60
	CAATATAAAC AGCGGCTATA TGATATAAAT GCTCAGACAC ACCCNCTGCG ATCCAT	116
.5	(2) INFORMATION FOR SEQ ID NO: 1752:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1752:	
	TATGATTAAG CTTAGTGCAG ATTTGATTTA TTMAACAACG CTTCACTACA TTAAAAATAG	60
	GGCACTCGCA CATATAGTTG TATCAATAGC CTTTATCAAT TTTTTGGGAA GGTT	114
20	(2) INFORMATION FOR SEQ ID NO: 1753:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1753: AACTTCAAAT GTGCCAAGTG TTGAATCACA TCAAAATCAT TTTTATTTAA CG	52 .
	(2) INFORMATION FOR SEQ ID NO: 1754:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 75 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1754:	
*	ACTAATCCCT TGCGTGTTTC CAATCAATTG CATTATTAGT GGCCATTTGT TTGATATAAC	60
45	TGACAAGCTT TAACC	- 75
	(2) INFORMATION FOR SEQ ID NO: 1755:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	· · · · · · · · · · · · · · · · · · ·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1755:	
	GTGAACAAGG GTAGATGTAA ATAGTTGATG CATGTGTACA CATCATAACA AAA	53
5	(2) INFORMATION FOR SEQ ID NO: 1756:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1756:	
	TTATTTGGGC AGGCAAATAC CCTTAATATA TTCAAATCAT GTTAATATCA TTGCTATTGC	60
	TARACC	66
20	(2) INFORMATION FOR SEQ ID NO: 1757:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1757: ATTAATCGGA GCACTTGGGT TCGCAATTTA TGCTGAAATG GATCATCTA CATCATC (2) INFORMATION FOR SEQ ID NO: 1758:	57
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1758:	
	CGAACAATAA CTCTAAGTAT CCAACAAATG CTGCAAGTGT ACCTACTGTG ATTGATCCAG	60
45	AAATAGCAAG ATATGCACCA ACACCGATGA CAATAATTGG TCCAATATCT GTAACTGTAT	120
	TAATTGCGGC AAAGGAATAG GCATTCCATC TTGTATGTTT CAACGCACGT GTTAGGAAAT	180
	TAGTATTCTT TTTATCAAAG TTTTTCGCTT CATTGTCTTC AATCGCAAAA CTTTTAACGA	240
50	CTGAAATACC TTGAACACGT TCATGCAAGA ATCCTTGAAC CTCAGCTAAT GCTTGAGATC	300
	·	

	(2) INFORMATION FOR SEQ ID NO: 1759:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1759:	
	NATTATGTCA TGCTAGGTCA CTTGCATCAT CCATTTAGTA TAGAAGACGA CAAAATTAAA	60
15	TTATAGTGGG CTCCTTGATT GGCAGTATTC ATTTTCGGGA AGCGGGGTCC AGGCTTAAAG	120
	GGTATTAGAC GTGGTTACC	139
	(2) INFORMATION FOR SEQ ID NO: 1760:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1760:	
	TCGCCCCTCC AGGCTATTAT TTCATCTATA TCATTGTCAT CAGTTAAATT CAGCCTCGAC	60
30	ATTTCCATTT CAATAGACTG TTCATTCAAT TCTAAGTCAT TATTGTAAGT TTCTAGTTGA	120
	TTTTCATAAT GATTTAGATT ATTTTGCTCA ATTAACTTTC TTTGAGACAA TTGCATTAAC	180
35	TTATCTTCAA TCTCCTTTGA GAGTTCTTGA TGCTGATTCA CATCTTGAAC ATACTTCTTA	240
	TAATCCACCT CAAAATTAGT GATATTAnTA TATNTCGAGA GTGTTTCAAA TTCAGTGATG	300
	AGATCTCGAC ATAAT	315
40	(2) INFORMATION FOR SEQ ID NO: 1761:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1761:	
	TAAATCCTCG AGATTCTTAA TAGGGTAGAT ATCTAACGTT TTCGCAAAGC TCTTTTTGAT	60
	TTGTTCTTCT TTTGAATCTC CAATGATCTT ATTATCACCA TCACAAGATG TAACAAAGAT	120

	CCATCCTCAT CATTCATCAT CTTCATCTAC CTTCGCGGCT GGAAATTCAA AGAATCTATT	240
	ACTGACAAAT CGCTTTTTCC ACCTTTTGAA AAGTCAATTT CCAACTTTTT ATAACCCACA	300
5	GAACTTCCTT TCAAATTACC ATCAATATGC ATTTTTAATA CCGGTGCTTT ATCAGTAGGA	360
	ATATTATAAC GACTTCTTAA TTGCTTAACA TTTTCATCT	399
10	(2) INFORMATION FOR SEQ ID NO: 1762:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1762:	
20	GTATAGAAGA CGACAAAATT AAATATAGTG GCTCCTTATT GCAGTATTCA TTTTCGGAAG	60
	CGGGTCAAGC TAAAGGGTAT AGACGTGTAC AATTAATGAT GGCATTATTA ACGATGTATT	120
	TATTCCTCTT AAGCCACTTA GACAATTGGn AATTATCTCA GGCGAATATA ATGATGTTAT	. 180
25	TAATGAAAA GTTCATGTGA AAAATAAAGA TAATTATnTA CATT	224
	(2) INFORMATION FOR SEQ ID NO: 1763:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1763:	
	AGCAACCAAC GCCAGATAAA GCAGAAGATA ACGCATTTCC CCCCATCACC ATAT	54
40	(2) INFORMATION FOR SEQ ID NO: 1764:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1764:	
	ATTCCCTTAT CGCATTCTGT AAAATGATCT TCATCAGAAA TTGCTTCGAT ACGTTTATG	59
	(2) INFORMATION FOR SEQ ID NO: 1765:	

5	(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1765:	
10	GATTCAATTC ATCTGTATAG ACGATATATC CTGATATGAA TTGGAAATGG AATA	54
	(2) INFORMATION FOR SEQ ID NO: 1766:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1766:	
	ATCGCATAGA AGCATTAGAC TCAAACTATT TTCGGTTATG AGAATAACTC TGACATCCAT	60
25	ATGGATACTT AGTTTCCAAG TTAGA	85
	(2) INFORMATION FOR SEQ ID NO: 1767:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1767:	
	CAGTACTGCT GAATGATGCT ATTGATTTTC TCATGAGACA TGGCGATAAC ATCG	54
	(2) INFORMATION FOR SEQ ID NO: 1768:	÷
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1768:	
50	GNCACTACTA ATCGTATCAG GATCACTAAT TAAGGCATCC AGCATCAGAT ACGAGCGCAC	60
	GTCAGACTAA TCTACTGTCA TGATAAAGCA GCTGCTAACC TTGTAAGTTC GTGAAA	116
	(2) INFORMATION FOR SEQ ID NO: 1769:	

_	(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1769:	
10	GTTCTATCCA ATATGGAAAT GAGGACATTA TGCGTGAAAG CTATGGACGA TGGACGATGG	. 60
10		82
•	TACACGCATG TTGTGTAAGC AG	. 62
15	(2) INFORMATION FOR SEQ ID NO: 1770:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. ·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1770:	
25	TATCTGTATT GTAGTAATCC GCTTCTCCCA TCTATATAGG GATCTTTCGT AGATATTCAC	60
	TTTATGCCTA GGATCCAAGA TGTGTAAGCA GCACTTTGCA TTATCTAATG CAAAGGGNAC	120
	ATGCGGCTGT AAGCCCTGTT CTGATAATCA TA	152
30	(2) INFORMATION FOR SEQ ID NO: 1771:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1771:	•
40	TGGAGGCGAA GTAAATGAAA AGTATTACGT TTGAAGAACA TTATGTCATT G	51
	(2) INFORMATION FOR SEQ ID NO: 1772:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1772:	
	ngaaacaaat atctgatgag atatgcaatg atgactataa gtaacattaa aatgaagccc	60

	CGIACACCAA TIATATCIII GIGGIIGITA TATTAATCI	
5	CATATGTTAA AAATTGACAG TTAACACATG TAGCTATTTG ATGTGAATGT GC	232
3	(2) INFORMATION FOR SEQ ID NO: 1773:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1773:	
	TAATGTCCCC CAGAATGTAG GCAAATGCAG AACCTGGTTT TAGGGTCAAC TGTTTNTTCT	60
	CCAAGCAGAA ACAAAGTTCT TGTGTCAGTG CACTTTTGGT CCACCATT	108
20	(2) INFORMATION FOR SEQ ID NO: 1774:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid	
. <i>25</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1774:	
	CGCAATTGAA GGATACACTA TTTTAAGAGC TGCAAACATG CGGGTGTAAC GTGTGGTATA	60
	CTGCAACTTT GGTnATTGGT TTAGTATAAG ATAAAATCAT CACAATGAAT C	111
3 5	(2) INFORMATION FOR SEQ ID NO: 1775:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid	
40 .	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1775:	
45	CAGGTTATCA GCTAATAGAT ATGTTGAAGA GGCAGTTGCA GGCCAAATGA AACTGCAGAT	60
	GTAGTTCAGT ACC	73
50	(2) INFORMATION FOR SEQ ID NO: 1776:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	
22		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1776:	•
	TAGACACAGT GCAAAATCTG GTACAGCTTA TGGAATTAGA CGGGTAAAGC AAATTACTGA	60
5	GTACCCA	67
	(2) INFORMATION FOR SEQ ID NO: 1777:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1777:	
	GTATGCCAGT GTCATTGCTG AAAACATCAA CCATTCCCTG CACCAAAATT TTTTGGTAGA	60
20	GTTTGATGCT GGCCATCCTC CAAGGGACTA AGGGTAATTT TGnTTAAAAA GAGCCAAAGG	120
	CCCAATG	127
	(2) INFORMATION FOR SEQ ID NO: 1778:	
25 30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 236 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1778:	
<i>35</i>	GAACCCAAAA ATTAGCAACA GTGGCTACAA TAGTTGGGCA CTGAAAGCCA GCCAAGTGGG	. 60
	ATTITTAGCC CTTGATTTGA AAGCGGGGTC CCCAGGATTA AAAAATTTAA ATTAGCCTAA	120
•	TAAGCCCAAA ATTCCCATTT GGAAAAGGAA ACCTCCTTAA ATTGGGTTGG AAAAAAGnTT	180
40	AAAAAAAAA AGGCCCAGnC CTTGGAATTT TTTGGAATTG GAAAAAGGAA TTAAAA	236
	(2) INFORMATION FOR SEQ ID NO: 1779:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(wi) CRANENCE DECERTATION, CRO TO NO. 1770.	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1779:	

	(2) INFORMATION FOR SEQ ID NO: 1780:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1780:	
	GACGACTCGC TTCTATTTTA AAATCCGGCG TACTTGGTTA TATAAATATC ATAATGGTTA	60
	AAATTAAAAA GCAATGTCAG TTCACACTAT TACTGACATT CTTTTAGTTA TGTGTATATT	120
15	ATTCATTCAC AAGCTTTTGG TCTATAAATC GAGTGATTTG CTTTGTTTGT ATATAACCAT	180
	CTGCTACATA TTCATCGTTC ATTGTAATTA ATGGATAAAA TAGTTCATCn n	231
20	(2) INFORMATION FOR SEQ ID NO: 1781:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Toroboot. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1781:	
30	GTCTCCCTGC CCCACATTTA ACATTGTAAT TTTGTGATGT GAATTTGTTG GAAACGTTAT	60
	TAATAATGTC AGAATAATTA TAGTCCAAAA CGTAACCAAT ATATATTTAC GTTTAGCCAA	120
	TAACCAAAAT ATGTAATAAA CAGAAATTAT AAATACTATA AATATCCAAT CATTAAACTT	180
3 5	GGGAACAGAA AAATGTGATT GCTTGATTC	209
	(2) INFORMATION FOR SEQ ID NO: 1782:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1782:	
	GTTAAACTTA GTTAGATAAA ATGCAAATCA CATTATTGTA GATAGTCTCT TTTC	54
50	(2) INFORMATION FOR SEQ ID NO: 1783:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1783:	
•	TCTGGAATGT CTCCTTGTCT CTCTATATAG CTATAGTCCG TCGCAAGCGG ACGTAATGTT	60
10	CATTTCATA ATGATTATAG TATGAAAGCG CTTTCTTGTA TATGTGACAT GTGCGTGTnG	120
	(2) INFORMATION FOR SEQ ID NO: 1784:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1784:	
	CTACCATTTA CATAAAGACC GTCTAATTCT TCAGTTTCAA TGGCATTTTG GAGCAAT	57
25	(2) INFORMATION FOR SEQ ID NO: 1785:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	٠.
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1785:	
35	TCATAACCAT TACCAAGTAT CCAAGCAGCT TTTAAACAAT ATGGCATAAA CATT	54
•	(2) INFORMATION FOR SEQ ID NO: 1786:	
40.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1786:	
	GGATGGGTGA TTTTAGCAGG TTTGGCTATG AGTACCGTAT TTGCATTAGG ACCGATTTCA	60
50	TTTAACAAAA TCATAATTTI GGGC	84
	(2) INFORMATION FOR SEQ ID NO: 1787:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs	
55		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1787:	
	CCGGTTTACC CTTAAAATTA TTTTTTGGGG GGTTCCATTA AACCTTCCAA TTCCCAATTA	60
10	ACCCCHACCC CCCTGGGTTT TCCTTAAAAA CCAAAAGGCC CTTTTTTTTC CCAACCCAAC	120
	CTTGGGGGAA TTGG	134
	(2) INFORMATION FOR SEQ ID NO: 1788:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1788:	•
	TATATCAACT AAAAAGCGCA TCTGCAACCG ACGGTTGAAA ATTTGGACAG GAGACAGATA	60
25	ATGTAATATA	70
	(2) INFORMATION FOR SEQ ID NO: 1789:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1789:	`
	AATATCCAAT TATACAAGCA GGTATGGCAG GAAGTACGAC ACCGAAATTA	50
40	(2) INFORMATION FOR SEQ ID NO: 1790:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1790:	
50	TGATTTACTA GCTGAATCCG ACATGCTTGA TGATACACTA TGTGAATTCA	50
	(2) INFORMATION FOR SEQ ID NO: 1791:	

(A) LENGTH: 58 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1791:	
10	CCGGACGCTT TACTTCCAAC TTTAGGTGGT CAACACAGGT TTAAACATGG CGATGTCA	58
	(2) INFORMATION FOR SEQ ID NO: 1792:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1792:	
	CATCATCCTC TAATTTAGTC CAAACTCCTG GATGATATCC AAATGAAGTT CCAATTGA	58
25	(2) INFORMATION FOR SEQ ID NO: 1793:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1793:	
<i>35</i> -	CACAAGTTTT AGAAGGAAAC CAATAACAAA TGACGAGATT AATTGCCACA AACATTAACG	60
	AC	62
	(2) INFORMATION FOR SEQ ID NO: 1794:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1794:	٠
•	AAGGCCCGGG GGGTTTAAAA AAAAAGGTTT AAAAAAGGTT TTGGCCCTTT AAACCCAAAG	60
<i>50</i>	GGAAATTTTA ACCCCAAAAA AAAAAAACCC CTTTGGGAAA GGG	103
	(2) INFORMATION FOR SEQ ID NO: 1795:	

5	(A) LENGTH: 121 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1795:	
10	TATCGATCGA TCATGTCGAA TCGATCTGTC GATCGATCGT ATCGATCGAA TCGCGTCGAA	60
	TCGAATCGT CGAATCGATG CTATCGATCG AATGCTATCT GAGTCGAATC ACGTCGATCT	120
	G	121
15	(2) INFORMATION FOR SEQ ID NO: 1796:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1796: AATTCATGTT AAAATCCTCC TGATATTAGA TGGCCCATTT TTATTTTTTT CGTTTCCATA	. 60
	TA	62
30	(2) INFORMATION FOR SEQ ID NO: 1797: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid	
<i>35</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1797:	
40	CATACTCGAC AATTTAGATG GTGAATACTT ATCATTTAAG TCCTTTGACA CCTCATCTAA	60
	AATTCTAGGA CTTTTAACAA TITCTTTATA CGTATTTACA AGTTGAATAT TACTTTGAAC	120
	CTCTTGCGCC ATAAACTGAG GATTGTCACC CTTAGTTTGA TTCACTAAAA TTTGAGTATT	180
45	AGCTTGATAT TTAGGTGATA AGACGAAAAA TGTAACAATA GCGCTAATAA TTAAAAATAA	240
	TAGCGGTAAA ATAATTAAAA TCTTCAAGTT TTTTTGTAAT ACTTCTTTAA TTTTTGTTAA	300
	TTCTAATGTA CTTTCCATTA TTTACCTCCC TTAAAAATTT TCATTAAAAT TGGTATTATA	360
50	TATATAGTAT TTACATATTA CATATCGTTT AAACAAT	397
	(2) INFORMATION FOR SEQ ID NO: 1798:	

GCTTTC (2) INFORMATION FOR SEQ ID NO: 1799: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPP: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: GCAGTAAGT TIGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAA ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
CGGGTAACAG CGAATGGTGT GTCACCGTAT ATAACTTTAC TATTTAATAT TTGGCCTGTT GCTTTC (2) INFORMATION FOR SEQ ID NO: 1799: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAA ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCC 1 GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			•
GCTTTC (2) INFORMATION FOR SEQ ID NO: 1799: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPP: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: GCAGTAAGT TIGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAA ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1798:	
(2) INFORMATION FOR SEQ ID NO: 1799: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear	.10	CGGGTAACAG CGAATGGTGT GTCACCGTAT ATAACTTTAC TATTTAATAT TTGGCCTGTT	- 60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDENDESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTA TAAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GCTTTC	, 66
(a) Lenoth: 77 base pairs (b) Type: nucleic acid (c) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: (xi) SEQUENCE CHARACTERISTICS: (a) Lenoth: 172 base pairs (b) Type: nucleic acid (c) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 140 base pairs (b) Type: nucleic acid (c) STRANDEDNESS: double (D) TOPOLOGY: linear		(2) INFORMATION FOR SEQ ID NO: 1799:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799: GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS:	15	(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS:	20	(b) Toronogra Timedi	
GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799:	
GCAGTAATTT CGCTAGG (2) INFORMATION FOR SEQ ID NO: 1800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	25	GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GCAGTAATTT CGCTAGG	77
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(2) INFORMATION FOR SEQ ID NO: 1800:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800: TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT 1 45 (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(C) STRANDEDNESS: double	
TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAN ACTTTTTAT TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT 1 45 (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	35		•
TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT 1 45 (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800:	
TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTT AAATCTTCTC GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT 1 45 (2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	40	TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAn ACTTTTTAT	60
(2) INFORMATION FOR SEQ ID NO: 1801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC	120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT	172
(A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	45	(2) INFORMATION FOR SEQ ID NO: 1801:	•
	<i>50</i>	(A) LENGTH: 140 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
INTI DECOMPT AND		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1801:	

	AGTAAAATTT GTCATCACGA TCAGCAAAAG CTTTTGATTC TGACGTATCT TCCATAAATG	120
5	ATCTAAAAAT TGGTAGTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 1802:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
10	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1802:	
	ATCCCCCGTA CAGACTTCAG CTTACGTAAA CATGCTGAAC ACTCTAGTGA AGATTTCAAA	60
20	(2) INFORMATION FOR SEQ ID NO: 1803:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	() CONTROL DESCRIPTION CEO ID NO. 1803.	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1803:	60
30	CAATTTAAAT GCATCTTTCC CATTAATTTC ATTTGTTGTC GCTTTAGCTG TGTTAATTAA	
	(2) INFORMATION FOR SEQ ID NO: 1804:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: IIIheai	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1804:	
	ACTTGATCGA AAAGGTTTCA TACCGGTAAA CGATAAAGTT GAAACAAATG	50
45	(2) INFORMATION FOR SEQ ID NO: 1805:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) IOPODOGI: LIMEAL	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1805:	
55	(XI) SEQUENCE DESCRIPTION. SEQ ID No. 1003.	

. •	(2) INFORMATION FOR SEQ ID NO: 1806:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1806:	
	AAGAACTGTC TATGAATATT GGATGACGCT TTGATGAGAA CATTAGTAAG CCATTTGTTC	60
15	AAGGAGTACA	70
	(2) INFORMATION FOR SEQ ID NO: 1807:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1807:	
	TAGCATTTCT AATGGAATCC AATCTTACCG AATGACAATT GGAATATAAC TGGTGATAAT	60
30	GTTGAATGGT CCTGTGA	77
	(2) INFORMATION FOR SEQ ID NO: 1808:	.*
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1808:	
	CCCGGCCCAA AACCCCTTTT TTGGGTAAAA AATTTTTTTT AAAAAGGGAA AAATTTCCCC	60
45	TTTTTTGGTT CCCAAATTTT AAATTAGAAA GGGCCCCCCC TTCCCCCCCA AATDTTTCCC	120
	A	121
50	(2) INFORMATION FOR SEQ ID NO: 1809:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1809:	
_	AAGTTTGGTG AAGGAACCAC GTGCATGATG GTGTTCAAAC AATGCGTTAC GATGTTGACG	60
, 5	(2) INFORMATION FOR SEQ ID NO: 1810:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
. 10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1810:	,
	TGGTTGAGAA AACACAGCGT TAAAGTTGAG GTATTTCAAA AGACAAGTTG GAACATTA	58
20	(2) INFORMATION FOR SEQ ID NO: 1811:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
2 5	(D) TOPOLOGY: linear	
		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1811:	
30	CTTAAATAGC AAGTGGTTTT ATAACAACTT TGAGTTATCT CAATATAGTT ATCGC	55
	(2) INFORMATION FOR SEQ ID NO: 1812:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1812:	
	TAAGTCTTCA ATTTTTTCAG TTGATACACC TAAGTGATAC AGCCATTCTT	50
45	(2) INFORMATION FOR SEQ ID NO: 1813:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 10205001. 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1813:	
5 5	(XI) SEQUENCE DESCRIPTION. DBQ ID NO. 1013.	

(2) INFORMATION FOR SEQ ID NO):]	1814:
-------------------------------	------	-------

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1002 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGÝ: linear

10

15

20

25

30

35

50

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1814:

TGGTCATGCG	GGAAATACTA	GGACATGAAA	ATTATGCTAA	AGGCATCAAA	GTAACTGAAA	60
ATAATGGCGT	AGTGGATATA	GATATGTACA	TTATTGTAAG	TTACGGTGTG	AAAATATCTG	120
AAGTTGCCAA	TAATGTACAA	TCAACAGTGA	AATATACTTT	GGAAAAATCA	CTTAATGTAT	180
 CAGTAAATTC	AATCAATATA	TATGTACAAG	GTGTACGTGT	GAATAATACA	GGCAAGAAAG	240
CTTAGGAGGA	CAACTTGAAA	TGATTAGCAA	AATTAATGGT	AAATTATTTG	CCGATATGAT	300
TATACAAGGG	GCACAAAATT	TATCTAACAA	TGCAGATTTG	GTAGATTCTT	TGaATGtGtA	360
TCCAGTGCCA	GATGGtGATA	CAGGAACAAA	TATGAATCTT	ACTATGACTT	CAGGTCGCGA	420
AGAAGTAGAG	AATAATTTGT	CGAAAAATAT	CGGCGAATTA	GGTAAAACAT	TCTCGAAAGG	480
TTTACTAATG	GGTGCAAGAG	GTAACnCTGG	TGTCATCTTG	nCACAATTAT	TCAGAGGATT	540
TTGTAAAAAT	ATTGAAAGTG	AATCTGAAAT	TAATTCAAAA	TTGTTAGCTG	AAAGTTTnCA	600
 AGCTGGTGTT	GAAACGGCAT	ATAAAGCTGT	TATGAAACCA	GTTGAAGGTA	CAATACTTAC	660
AGTTGCAAAA	GATGCTGCGC	AAGCTGCAAT	AGAAAAAGCA	AATAATACTG	AAGATTGTAT	720
AGAATTAATG	GAGTACATTA	TTGTAAAAGC	CAATGAATCA	CTTGAAAACA	CACCAAACTT	780
ATTAGCTGTA	CTTAAAGAAG	TTGGTGTTGT	TGATAGTGGC	GGTAAAGGTT	TGTTATGCGT	840
TTACGAAGGA	TTCTTAnAAG	CGCTTAAAGG	TGANAAAGTT	GAAGCCAAAG	TTGCAAAGAT	900
AGATAAAGAT	GAATTTGTAC	ATGATGAACA	TGATTTCCAT	GGTGTAATTA	ATACTGAAGA	960
TATTAATTTA	TGGCTATnGT	ACTGAGATGA	TGGTTCGTTT	TG		1002

(2) INFORMATION FOR SEQ ID NO: 1815:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1815:

	GACAACGCTA TTATTTTTAG TTTTTCAATT CTATTATGTC ATAATTATGT CACTCAAAAA	120
_	CTGTTTTCCA ACATTGATTT ATTGTTGGAA AATCTCGAAA ATCTAGTCTA TTTCTCCAAC	180
5	AATCGAAGAY TTATGCCCTT TTTTCTCCCT TTAAATAAGT CATAATACGA GGCATACATG	240
	CAACATTTAC AATAAAATAT GTTCCTACAT CGTATTATAC GAATGCTCAC ACTTATAGTT	300
1Ò	GTTTAGTAAA CCCAGATGTA TTGCTAACAT ACCCATNANC NCTATATAGT T	351
	(2) INFORMATION FOR SEQ ID NO: 1816:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1816:	
	ATATCGTATC CCATGCGGGA AGGGCTTTAT TTATACTGTG CACGATGAAT GCGCACAACG	60
	GG	62
25	(2) INFORMATION FOR SEQ ID NO: 1817:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1817:	
	AAAGGGGGA AATTTTTTT TTTTGGGTTT GGGGGGAAAA TTTTTTTT	60
40	TTTAAATTAA	70
*0	(2) INFORMATION FOR SEQ ID NO: 1818:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1818:	
	CAAGTTCGGA ATGCGAACGC GTCTTAATCT ATATACAAGT GATGCACTCC A	51
	(2) INFORMATION FOR SEQ ID NO: 1819:	

_	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1819:	
10	TCGCCATACT ATCGACAGCT GCTAAAATTG CGCTCTTCTT GTGTCGCAAT CG	52
÷.	(2) INFORMATION FOR SEQ ID NO: 1820:	,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1820:	
	CARATTGGGG ARATTACTAG ARATGARGAT ATTTATARAG ATGACTGGAC GTCARCTT	58
25	(2) INFORMATION FOR SEQ ID NO: 1821:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1821:	
	ACTGCTTCAG CACCTGTATT CATTGGGGAA AGCTTTATCG TTGACCGGCC AGTTTACA	58
	(2) INFORMATION FOR SEQ ID NO: 1822:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1822:	
	ACCTGTTGCT CGTGTCATAA ATAGGTGACT ATAAATCTCT GTTCAATATA CTTTTCGTTT	60
50	TTCCAATCTT AAAGGTCGAT GTTCGTGAGT AATCTTATCT CTGGnCCAAT TTTAATGTCA	120
	TGATATGTTC ATAGTATCAC CCCTTTGTTG TGTAATAATA ATCAGGTGGG TGGTTAGAAC	180
<i>55</i>	GGTGTGAATA	190

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(b) Topologi: Timeal	
	(wi) CROWENCE DESCRIPTION, CRO. ID NO. 1922.	-
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1823:	
	AGCHTTAGCH TATGGTTTAG ACACAACTGH TAAAGATGCH AAGTTCTTGT	50
	(2) INFORMATION FOR SEQ ID NO: 1824:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
20	(b) Torologi. Illieal	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1824:	
25	AAAAATTGGA AAAAAGGGGC CCAAAGGTTA ACCCAAATTG GAAANAAACC CAAATTTTTT	60
	GGAAATTAAC CCAAAAATTG GCCCCCAATT GGAACCCAAA AT	102
	(2) INFORMATION FOR SEQ ID NO: 1825:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 57 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1825:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 1623:	
40	ACGTACCAAT GTCATAATCA GTCATTTTAC CACTCTTAAT AATCTGCTTC CGGGCAA	57
	(2) INFORMATION FOR SEQ ID NO: 1826:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 61 base pairs	,
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1826:	
	ACCATCTTGT ACAAAGTGGA TGTCATATGC ACCATCTTGT GTTTTGAGCT GCATTTAATT	60
		61
EE	G	91

5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1827:	
	ACCOTTTCGC CAAGCCGACC TAATTTCTCA GCAATATTTC TTTCTACGCC ACCAAT	56
•	(2) INFORMATION FOR SEQ ID NO: 1828:	•. •
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1828:	
25	ACTTATAGGG CGCACTTATT TTTCGCTTCC ATAGCGAAAC TAGTGTCACT TATACGTATG	60
	TG	62
	(2) INFORMATION FOR SEQ ID NO: 1829:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1829:	
40	GCTACACACG ATTTACCTTT CTTGTCACGT TTTGCGACCA TCATTGTGAT GATA	54
	(2) INFORMATION FOR SEQ ID NO: 1830:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1830:	
	GTAATGACCA TCGCTGATTT ATGACATTGT TAGATCTCAT GTGCCATTTA GTCTGCTGAA	60
· 5 5	TCTTGGG	67
	•	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 50 base pairs	
5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 1010201. 1111011	•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1831:	
•	ATAACTCTTC GnCAAACTCC TCAACAAACT TCTTGTGTTC CATCTTCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 1832:	
	(1) Integration tok one in no. 1011.	,
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
•		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1832:	
25	AAACGTHAGA ATATTTAATG GAGCCAAGAA TGGTTTACAG ACGGAGAAAT GGGATATGTT	60
	GRACIO CON COCCORA ACCOMACIDA CACAMACACA M	101
	GAAGCGAGGC GTACGCGGAA AGCGTACTAG GCTAGAACAC T	101
	(2) INFORMATION FOR SEQ ID NO: 1833:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	1
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1833:	
40	TCGTCATCAT GTCTGTGTTA CCAACGTTTG ACGATTTANT TCATGCNGAA	50
	(2) INFORMATION FOR SEQ ID NO: 1834:	
•	(2) INFOGRACION FOR SEQ 15 No. 1834.	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 55 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1834:	
	free, pagaman annum annum and an annum ann	
	ATAAGTTAAT TGATTTATTG ATAAAGAGAA GCCAGATTTA AATATTATTA AACGT	55
	(2) INFORMATION FOR SEQ ID NO: 1835:	

5	(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1835:	
10	AAACAAGAAC CCCCATATGG TTAAGCTGCG CGTTTCAACA TACGGGGGGT TTTCATAT	58
	(2) INFORMATION FOR SEQ ID NO: 1836:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1836:	
	TACGTTTTAT AAAAACAAGA ACTAAAGTAT GCAGTGTGAA TTGTTCACTT TCnTGGCGTT	60
25	GGAATTGATT AAAACGAGAT ATGGTGTTGT GGAAGTTGTT TGTGTTTGCA TATTTTAAAC	120
	CGATT	125
	(2) INFORMATION FOR SEQ ID NO: 1837:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(b) Torobodii Tindar	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1837:	
40	AATCTACAAT CCTGAATCAC TCGTTAAGAT TAAAAGTATC GACAATGAGT ATCTGAACAT	60
	GAGCTCATCT GCCGTTTTTA ATGChAAAAA CCGGCGGCGG GATATTTTTG ACCACGGC	118
	(2) INFORMATION FOR SEQ ID NO: 1838:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1838:	
<i>ee</i> .	ATTTGGGGTT TTGGGACCCT TACCCAAAAA TTGGGGTTTG GTTATTAAAA AAAAGCCATT	60
<i>55</i> '	· · · · · · · · · · · · · · · · · · ·	

	GTCCCAGTTT TTGGGATTGC C	141
	(2) INFORMATION FOR SEQ ID NO: 1839:	
.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1839:	
15	TCTGGGGACT AAGTATGTCT CAGGCTTTAT GCTGTTATGT TTGAAAATGA AAGG	54
	(2) INFORMATION FOR SEQ ID NO: 1840:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1840:	
	ATTAAAAAC CTTTTTAAAC CGGGAACCCA AGGAAAAATT CCGGGTTTTA ATTAAAACCT	60
30	TTTGTTAATT GGTTCCAAAC CAACCTTTTG GGTTAATTTT AACCAGGAAT TTTGGAAAAC	120
	DGTTTTATTT GGA	133
	(2) INFORMATION FOR SEQ ID NO: 1841:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1841:	
45	AAAGTATGGA TTGATCGTGG AGAAGTTCTT CCTACTAAGA ACACTAGTCG	50
· ·	(2) INFORMATION FOR SEQ ID NO: 1842:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,

	GCGTTTTCCT GGGATATGTT TGATGAATGG ATGTTGTAAC ATGTTAATAA ATCGTTGGTA	60
5 ·	(2) INFORMATION FOR SEQ ID NO: 1843:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(D) TOPOLOGI: Tilledi	
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1843:	
15	CTGAGATGAA TATTGTGTTT CGCCATACAT ACTGGGTAAT ATCCCAACCA TTGCTGTAAA	60
	(2) INFORMATION FOR SEQ ID NO: 1844:	•
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronodi. Timeat	
		•
25	(with appropriate programment), and the No. 1944.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1844:	
	CATTACCTGT AAAAGGAAGC TAAAGACGAT GAGTATTTAT AGAAACCAAT TGCCGACCAT	60
30	TTGCAGCCAT TAGGAGGGTA GGAGGGCAAT CGCGCCCAAA GGTTATTAAC CGTCAATTAC	120
	CTTGA	125
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1845:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1845:	
45	ATCCACCTGG GTTTGTTCTT AATTTAACCT GNTAATTAAT TGGGTTGGGT CCGGCAAAAG	60
	TCCGGACCTG CAAATCGGAT TTTATCGTTA AATCTTGAAT TCTATTGCCC ATATTAAATC	120
	GCAAAT	126
50	(2) INFORMATION FOR SEQ ID NO: 1846:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 57 base pairs	
	(B) TYPE: nucleic acid	
5 5	(C) STRANDEDNESS: double	

ē	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1846:	
. 5	TTTTGGGAAT AAACCAATTA ATCATGGGCA AAAAATAAGC AATCCAAGTA CTTACTA	57
	(2) INFORMATION FOR SEQ ID NO: 1847:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1847:	
	TGATAAATAT TTCATCTAAA GAGAGGGAGT CATTATGACA CTACTTACTG	50
20	(2) INFORMATION FOR SEQ ID NO: 1848:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1848:	
30 .	ATCTAGGCAA TGAATGGACG GACTTAATAT TGATGTGCAA CAAGAAGAGG AGAAGCGAAT	60
	CAATA (2) INFORMATION FOR SEQ ID NO: 1849:	65
35 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1849:	
45	CGTGTGAAGT CATTACTTTT AATCCCATGA TGATGGTGAT GGATGAGACG ATATCTCTCT	, 60
	GTCTTTAACA GTTAAGTCCA ATTCTTCCAA CGAAACTTTT CCATAGGTTG TTTTATAAGT	120
	TGGAATACTT GCACAAATCA TACCTAATTG CTTATCAATT TTCTCAAGAC TGTCATCAGT	180
50	TATAAGATCA ATTTTATTAA TAATAATCAT GTCACTTAGT TTCAACTGAT CTTCCATCAG	240
	GCGA	244

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(5) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1850:	
10		
	TTTAAAGGTT CCCGGAAAGG TTTGAAACCA AACCTTTGCC CCGGCCCCCC GGGAAAAAA	6
		·
	AAAnTTGGTT TAACCCCCGG GGGGGGGGC CCTTAAAAAA ACCCAA	10
	THE PROPERTY OF THE PROPERTY O	10
	(2) INFORMATION FOR SEQ ID NO: 1851:	
15	(2) INFORMATION FOR SEQ ID NO: 1851:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(5) TotoBoot. Timear	
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1851:	
25		,
.5	TTTTTTAAGG CCCTTGGGGG GCCAATTTTC CCCCCCCCC AACCTTCCAA AGGTTGGGGG	6
		_
	GCCTTTTTT TTAAATTGGG GGGA	· 8
	in the second of	
	(2) INFORMATION FOR SEQ ID NO: 1852:	
	(2) INICIONATION FOR SEQ ID NO: 1652:	
30	(3) GROWINGS GUADA SERVICES	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(wi) appropriate programmer and the second	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1852:	
10	TCATGATTAA AATTCAACAA TTACAACATC ACTTTGGATC ACATAAGAGT AA	5.
	(2) INFORMATION FOR SEQ ID NO: 1853:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 56 base pairs	
15		
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1853:	
	Dagarran paratra team. Daig 10 Ho. 1033.	
	ATAAAACATT TCAAGATGCG CTTGTAATTG TATGTGATAC TGCCAATGCT CCACGA	
		56

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1854:	
	AAAAGATCAT GCGCATAATG ACATGGTGAT GATATGAGTA TGATGGTGGG TACA	54
	(2) INFORMATION FOR SEQ ID NO: 1855:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		4
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1855:	
	ACAACAAATG GTAATGCATA AACATACAGC CAATAGCTAC AATTGCACGA CG	52
25	(2) INFORMATION FOR SEQ ID NO: 1856:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1856:	
	ACGGCTGCAC TCATCATGGT CTGTGGCGTG ATTGTTAATG TTTTAGTTGC CCGCTTC	57
	(2) INFORMATION FOR SEQ ID NO: 1857:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1857:	
-0	GCAGATAACT TCCTTGATCC TAACAAAGCA AGTTCTCTAT TATCTTCAGG GTTTTCACCA	60
50	GACTTCGCTA CAGTTATTAC TATGGATAGA AAAGCATCCA AACAACAAAC AAATATAGAT	120
	GTAATANACG AACGAGTTCG TGATGACTAC CAATTGCACT GGACTTCAAC AAATTGGAAA	180

	(2) INFORMATION FOR SEQ ID NO: 1858:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>5</i> `	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1858:	
	CGCTGCACTT CCTGAACGCA GTGAGACCAG AACGTGGTGT CACTTTCGGT CTATTCCGGT	60
	·	
15	TAAGTGTTGG TCTCGGA	- 77
15		
	(2) INFORMATION FOR SEQ ID NO: 1859:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 10:00011 12:001	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1859:	
	(AI) SEQUENCE DESCRIPTION. DEG ID NO. 1009.	
	TTTGGCGTTC GTGATTTTCT CTAGACGTAG TAACTTTCCC ACTCTTTGCG TCC	53
	(2) INFORMATION FOR SEQ ID NO: 1860:	
20	(2) 211 012 12 12 12 12 12 12 12 12 12 12 12 12 1	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(b) 10F0b0G1: 11hear	
	AND ADDRESS PROGRAMMENT OF THE 1000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1860:	
	THE RESIDENCE OF THE PROPERTY	E 0
10	TTTCTCACTC GCGCATTTCA GTTTGTTTTG ATTTACCCGT CTCTTCTATT TGTCTTAAT	59
		•
	(2) INFORMATION FOR SEQ ID NO: 1861:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
, ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1861:	
	· · · · · · · · · · · · · · · · · · ·	
	THE	60

.

	(2) INFORMATION FOR SEQ 1D NO: 1862:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1862:	
	ATTAATACTG AGCAAATGTG CATAAGACAT CATGAATTAG CACCAATTTA CAGG	54
15	(2) INFORMATION FOR SEQ ID NO: 1863:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1863: TTTAACCATC ATTCTATGTC AAAGTTTTGA AATGATGGTT ATTTTTTATT GCTTAAATTT	60
	ATTATTGCTA CTACTATACC AATGAAAGT	89
30	(2) INFORMATION FOR SEQ ID NO: 1864: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	•
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1864:	
40	AAAGCTGGTA CGCCTGCAGG TACCGGLCCG GAATTCCCGG GTCGACCCAC GCGTCCGGAA	60
	CCAAAATTGC ATCTGATGGT CTCAAGGGTC GTGTGTTTGA AGTGAGTCTT GCTGATTTGC	120
	AGAATGATGA AGTTGCATTT AGAAAATTCA AGCTGATTAC TGAAGATGTT CAGGGTAAAA	180
45	ACTGCCTGTA CTAACTTCCA TGGCATGGAT CTTACCCGTG ACAAAATGTG TTCCATGGTC	24
•	AAAAAATGGC AGACAATGAT TGAAGCTCAC GTTGATGTCA AGACTACCGA TGGTTACTTG	300
	CTTCGTCTGT TCTGTGTTGG TTTTACTGAA AAAACGGCAA CAATCCAGAT ACGGGANGAC	36
50 ·	CTCTTnTGCT GCAGCACCAA CAGGTnCCGC CAAATCCGGA	40
	(2) INFORMATION FOR SEQ ID NO: 1865:	•

(A) LENGTH: 51 base pairs

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1865:	•
10	AAATGGCGTA TCTTTATGTA TCAACTAAGT AATCACCAAT TTCTTTCGGA T	51
	(2) INFORMATION FOR SEQ ID NO: 1866:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	_
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1866:	
	GTGTTGCGGA TAATCCGTCG ACATTAGCGT CTGAAGGTAT CATGAGGCAA CTGCGCAA	58
25	(2) INFORMATION FOR SEQ ID NO: 1867:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1867:	
35	ACAGCAACTG ACCCAGTTTA CTACCGTCAC TCAAATCACA CAGGTGGTAT CAAATCAATC	60
	(2) INFORMATION FOR SEQ ID NO: 1868:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1868:	-
	CAATCTCTTA CCATTTATCT CAGCTGGTGA AAACGGTCCA TTACACTTAG AATAAA	56
	(2) INFORMATION FOR SEQ ID NO: 1869:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5 <i>5</i>	(C) Distribution admin	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1869:	
5	GCTATAGACT AGAGGTACAG CAAATTCATG TGTACAGTGA TTAGAAGGCG ATGAGCAAAA	60
	GTAAT	65
	(2) INFORMATION FOR SEQ ID NO: 1870:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1870:	
20	GCTACTGGCG GGGGATAGTA ACACCCAATG TTACACGTAT ATACGTACGG CTTCTTGATA	60
20	AAAAGATGAA GCCNTTACAA GTAGAAGAGCG TAAGAACGTG ATCATCTAAA TGGTAAGGGT	. 120
	AGACTATCCC ATGCCATTGT GGGCGGTTGC ATAGGTACCA CGGCACATAG CGG	173
25	(2) INFORMATION FOR SEQ ID NO: 1871:	
30 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1871:	
3 5	GCTGTGGGAT TGTCCTTTGG CATGGGGTTA GGGAGAGCGT TTCTAAGGGG CGTTTGAAAG	60
	CCATTGATCC GTAAAAGGAC CATTGTTGGA AGCNGCCTTA AGAA	104
40	(2) INFORMATION FOR SEQ ID NO: 1872: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1872:	
50	CCATTATCTC AAGAGGTTCT AGTAAGGGGA TGGCATTTGC TTCTTATGAA TTTGACCAGA	60
	ATAA	64

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· · · .
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1873:	
	GACAACCTAT TGTTTCCCTA CCATACTGTT GTCCGGTTTG ACAAAACGGC GTTCCACAAT	60
	CCATACATCG TGCACCTTGG ATAGAGGCAT CTTCTTTAGT AAATCGTTGT TGATATGCTT	120
15	TATGATGCTT CAAACGGTCT ACCAGTGATA ATTCACCTAA GTACTGTTTG TCATACTTCA	180
	TARATCCTTT ARATTCACCC ATCGTATCTC CCCCTTTCCT TARTACACAA CGGCTGGTTT	240
,	ATGTTTAGCA TCGATTGTTT TGACTGTnCA TCGTAAAATG CAGCTAACAT CGCTTCATCT	300
20	TCCATTGTCA TGTGAAGATT TTGTGGCAAA NGGAATTTTT TGCATCAATG AATNGGTGAA	360
	CCTTTGGGGG TGACCTT	377
25	(2) INFORMATION FOR SEQ ID NO: 1874:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1874:	,
35	ATTATCTGAA TACGCAGCAG TTGCAGCACT TGATGGATCA GCAGTATTTA AAAGAGGTTA	60
	ACACATTACC CAATAGTG	78
40	(2) INFORMATION FOR SEQ ID NO: 1875:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 256 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1875:	
50	CTAAAAGAAG TTAAAGAGTG TGATGGTAGA ATTATATTAT TTATTGATGA AATGCCATAT	60
	GCTTGTAGGT GSTGGTAAAA CAGATGGTGC CATGGATGCA GGCAACATGC TAAAACCAAT	120
55	GTTAGCACGA GGAGAGTTAC ATTGTATTGG TGCAACAACT TTAAATGAAT ATCGAGAATA	180

•	TGTTGAAGAT ACAATT	256
	(2) INFORMATION FOR SEQ ID NO: 1876:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 286 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1876:	
15	AGCGCGAAAT TGAGCAAGCG GAACATGCGA CTGATGAAGA AAAACAAGTT GCTTTAAATC	60
	AATTAGCGAA TAATGAAAAA CGTGCATTAC AAAACATCGA TCAAGCAATA GCAAATAATG	120
	ATGTHAACGT GTTGAAACAA ATGGCATTGC TACACTAAAA GGTGTACAAC CTCATATTGT	180
20	AATTAAGCCT GAAGCACAAC AAGCAATBAA AGCAAGTGCA GAAAATCAAG TAGAATCAAT	240
	AAAAGATACA CCACATGCAA CAGTTGATGA ATTAGATGAA GCGAAT	286
25	(2) INFORMATION FOR SEQ ID NO: 1877:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 74 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
0.5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1877:	
35	ACTTCCAAAC ATGATAAAGA CAGACTACTT CACAGGTTTA AGGGAAGCAA CCACATTAGC	60
	GGGATTCACC CTAT	74
40	(2) INFORMATION FOR SEQ ID NO: 1878:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1878:	
	TTTCATTAAG TTCAAAAAAT CTCAATAACT TTAAGGATTG GTCCGCATAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 1879:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	•	
J	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1879:	
	ARIY DEGOLARD DESCRIPTION. GBQ ID NO. 1077.	
	ATACCCCTGA GATTAATTAC TTGTCCTTTT TTTAGAACAA CATCTCCTGG CTTTGTTTCG	60
10	(2) INFORMATION FOR SEQ ID NO: 1880:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	÷
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1880:	
	AATATCATTA ATAATATCAT TGATGCAAGT CCTATTGTGC ACAACTGGGG TGATTGCCTT	60
	(2) INFORMATION FOR SEQ ID NO: 1881:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(b) Torobogi: Timeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1881:	
35	ACAATGGCAC ATGGACTTAT GCCTGGGGTG TCCTGTTCGT CGCAGCATCA AAATGA (2) INFORMATION FOR SEQ ID NO: 1882:	56
	.(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1882:	
	TGCAAAGCAT TGGCACATGG CCAGTCAGTT TTACAACGTC GTGACTGGGA AAACCCGAGA	60
<i>E</i> 0	nGCGACGTTG TAAAACGACG GCCAGTGCCA AGCTTGCATG CCTGCAGTCG ACTCTAGAGG	120
50	A	121
•	(2) INFORMATION FOR SEQ ID NO: 1883:	•
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1883:	
	ACATTTAATG TATAACCAGT TTCAACATTG CCGATTTAGT GGCAGCAGTT GCAGGA	56
10	(2) INFORMATION FOR SEQ ID NO: 1884:	-
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1884:	
20	TGCATCCATT TGATTGAATT TTATGTTTTG ACCAAAGCCG GTTGCAATGT AC	52
	(2) INFORMATION FOR SEQ ID NO: 1885:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
•	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1885:	
35	TGAAAAGTGG TGGAATGGTG TTAAAAGTTG GTGGGTAATT TTAGAGAAGA G	51
•	(2) INFORMATION FOR SEQ ID NO: 1886: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1886:	
	TACACGAACC ATACTCACCA GGTTTTCGTG TCATGAGGCG ATATTTTTTG TCATTTTATA	60
•	TACATTTATC CAAATTCATC TTTTAAATGT TGAGT	95
50	(2) INFORMATION FOR SEQ ID NO: 1887:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1887:	
	GCTACCAAAG GCGTTTTACC TATTGCTAGT CACTGCAAGT GGCTTAGCTA TGCAGATCAA	60
5	CTGGT	65
	(2) INFORMATION FOR SEQ ID NO: 1888:	,
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1888:	,
	GTGGGACCAA CTGGCCGGTG ACGGTGGTAA AGGTGCTTCA GTCGTATTGA AGTGGGATGA	60
20	(2) INFORMATION FOR SEQ ID NO: 1889:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1889:	
	TGTTGGAGAA ACAGTTAACG AGGTTTAATG TTAAAAAAGC AACGTATCAT GGGTATA	57
	(2) INFORMATION FOR SEQ ID NO: 1890:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	٠.
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
w.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1890:	
45	TGGGATCTGC TTGCAAATAC ACAAAACTTT CTGGATTTTA TTACAATTGC AATATAATCA	60
	AACA	64
	(2) INFORMATION FOR SEQ ID NO: 1891:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	•••	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1891:	
	GGCATCCACT CAGATAAAAT AAAGATGTCA AAAAGGCAAA GATGGTGCTA AAAAAACAA	59
5	(2) INFORMATION FOR SEQ ID NO: 1892:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1892:	
	GGTATCTCAA CGATCCTTTA GGTTAATTCG GAAATTTCTA CACGTGAGTT AGCA	54
	(2) INFORMATION FOR SEQ ID NO: 1893:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1893:	
30	TTGTCTTGGC AATGGCAGAG CAACAGAAGT TTAAAGTGCT TGCTGATCAT AT	52
	(2) INFORMATION FOR SEQ ID NO: 1894:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1894:	
	TAAACCTATA CCCTGTAAAA AGAAAAATCG TGGATCGAAA GAACATGTAT GTGGCATTTA	60
45	TGATTGATGC TCAAGCAGA	79
	(2) INFORMATION FOR SEQ ID NO: 1895:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3.77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1895:	
	TTATAAAGGA GAGAAATCCT TAATTATGAA TAAAGCATCA TTTGATAAAA AAGTTAAAAA	60
5	GCAATTATGG TTTTTGAACA AGAAGGAGAA ACAAGCATTA GATCAACGAT TGTCTTCTAT	120
	ATCTGATGAT GACAGCGTTA ACTTAAATAA GCCTGTTACC TTTGCTAATG CTTACTTAAG	180
	ACAAAATGTA TTTCGAAATA AAGAAACAAA AAGTTATAGT ATGTTTGTTA CATTAGTAGT	240
10	GATGATGTTT GCTTATGTTG CTTTATTAGG TTTGTnTTTA TTTGGGCTAA TTACAAGTCT	300
	ATCTGGCGTA CAATTTTCG TTAGTCCTAA GGTAGATTTA TCTACnACTG TTGTTATTTT	360
15	AACAAThATT GGAGCGA	377
	(2) INFORMATION FOR SEQ ID NO: 1896:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1896:	•
	TTAGGATCCG TCTTTGCCGC AGCGTGGGTG TTCCGCGAGC GCTTCTTAGA GGTTTTGC	58`
30	(2) INFORMATION FOR SEQ ID NO: 1897:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 445 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1897:	
40	ATCGCTCAAA CCGAAATTGA AAATGCATCT ATTACTTCAT TAAGCCGTTT ACCAGACGTT	60
	ATATTAGCAT TGAAAAGTGG AAAGGTTGAA GGTGCTGTAG TTGAAAAACC TGTAGCAGAA	120
	GCATATTTAA AACAAAATCC TAAATTAGGA ATTTCCAATG TGAAATTTAA TGAAGAAGAA	180
45	AAAGATACAG TGATAGCAGT GCCAAAAGAT TCACCAAAAT TATTGTCACA AATTAATAAA	240
	ACGATTAAGG AGGTTAAAGA TAAAGGATTA ATCGATAAAT ATATGACTAA TGCTGCAAAT	
- 0	GCGATGAATG ATGACAGTGG TTTTATTTCT AAGTATGGTA GTTTTTTCTT GAAAGGAATT	
50	AAGATTACAA TATTAATTTC ACTTATCGGT GTTGCATTAG GTTCTATTTT AGGTGCATTC	
	GTTGCGTTAA TGAAATTAAG TAAAA	445

5	(A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1898: ACCTITICAA TGTTGCTTTG ATATAAATTC ACAAAGTTGA CTTTTTAATT CTTCAATAGA	60
	TTCTCTACTG CGATAGCTGA ATTGCCATCT TTTCTACTAC T	101
15	(2) INFORMATION FOR SEQ ID NO: 1899:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1899: TGCCCTGGAT GCCTTTAACT TGATTCATGA CCTGTGGTTT TATTTCAATT TAGATGAGCT	60
	ACCTTCAAGA CCTTC	75
30	(2) INFORMATION FOR SEQ ID NO: 1900: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· · ·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1900:	
40	AGCAATACGG AACTGATGAA CGGAATTGTA ATACGAGAAT ATGAAGCATC AACG	54
	(2) INFORMATION FOR SEQ ID NO: 1901:	,
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1901:	
	AGTACCTGAG TATCGCAGAC CGGCTTCAGG TCGTAGAATT TCTATACGTG GAGCTAGAAG	60

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1902:	
	GTCTAACTAC AGCATGCCGG CTTATTGTTG CACTTTCTCA ATATTTCCAT A	51
	(2) INFORMATION FOR SEQ ID NO: 1903:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1903:	
	GGATTHAAAC GTGCATTAAC GCGTGTHTTA AATAGTTATG GTTTAAGTAG	50
25	(2) INFORMATION FOR SEQ ID NO: 1904:	
3 <i>0</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 <i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1904:	٠
	ATCGTATTTA TTTCAGCGAG TAGCGGTAGC CTTCAATACA CAAAGATTTT ACC	53
	(2) INFORMATION FOR SEQ ID NO: 1905:	
10 15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1905:	
50	ATAAGACGCT AGATCTGGTC AATTTATTTC CGATTTTTTC AACACTATTC	50
	(2) INFORMATION FOR SEQ ID NO: 1906:	•
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1906:	
	TTCATCTGAA TCGTCGGCTT TCGCGATTAC TTCTTCGTCA GGGTTGCTAT C	51
10	(2) INFORMATION FOR SEQ ID NO: 1907:	_
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1907:	
20	CAATTGCTAA TAATCCTTTT AAGTCATTAA TGATTTGATC TTCCGTAATG TTGAA	55
	(2) INFORMATION FOR SEQ ID NO: 1908:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30 .		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1908:	
	TTGCCAAACA GACATGACTI AAATTTCAAT ATCTTCTTTG ACTGCATCGA TAT	. 53
35	(2) INFORMATION FOR SEQ ID NO: 1909:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1909:	
	TGAATTTCTA TACAATTATG GGGAAGGGTA TTGGTGAATT GGAATGGGCT CCTAAGTTTA	60
	CAAGCCCCCA TTCGATGGCC GTTAAAGTTT TTAA	94
50	(2) INFORMATION FOR SEQ ID NO: 1910:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	1910:		
5	AACATGATCG TGGGGGGATG TTATGTTTGT TCATATATT	T AGGAAGTCGT	TTGTAGTTAT	60
• .	TGTTTG			66
	(2) INFORMATION FOR SEQ ID NO: 1911:			
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double			-
15	(D) TOPOLOGY: linear	•		
		•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	1911:		
20	ATCTTCGCTC CACTTACTGC AATAAGGATT TGCGGCAAT	C CTAAACCGTT	TTTCA	55
	(2) INFORMATION FOR SEQ ID NO: 1912:			
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid			•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear			
		•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	•		
	AACAATCGTA ACGATACAAC GCAATCTTCG AAAAATAAT	G CAAGTGCAGA	TTTCCGAAA	59
	(2) INFORMATION FOR SEQ ID NO: 1913:			•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		·	
40	(b) Torobodi. IIIIdai			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	1913:	•	
45	ACACCACACA CACACACACA ACACCCCACA CAACACACA	C AAACACACAA	A	51
	(2) INFORMATION FOR SEQ ID NO: 1914:	,		
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1914:	
	TGTTACGACT TGGTCGACCT GGCAAGCGCT TCGCGCACGT TCTGCAGCnT CTCACTTATT	60
5	GGTATCGCGA TGCGACGTTA AGAAATTTCG GAGTTCTGGT CACCTTATGT T	111
	(2) INFORMATION FOR SEQ ID NO: 1915:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1915:	•
	TGGTCCGCTC TCAATCGCAT CTTCAGGTTT TACTTGGCAA AAGAGCGCGG TGCTCA	56
20	(2) INFORMATION FOR SEQ ID NO: 1916:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 62 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1916:	
	GCCGACAGTA AAATAAAGGT ACTTGATATA ACATATAACG GAAAGCAACA GTTACTGTCA	60
	CA	62
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1917:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 103 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1917:	
45	ATGATATTTA TTTGATTGAA GAGATGTTGC TTAAACAAGA AGACGTACAA TTGATANAAC	60
	GTAAAGATTA TATTCAGCAC CCTAAAGAAA ATGGTTACCG CAG	103
50	(2) INFORMATION FOR SEQ ID NO: 1918:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
ee .	(C) SIMMUDDINGSS: GOUDIE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1918:	
5	CAGTGTAGCG TGTGTCATGC CGTTTTACCA CAATTGAAGA CTGAGCTCTA TCCCTGTGCC	60
	(2) INFORMATION FOR SEQ ID NO: 1919:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1919:	
,	TCAAATTAAC TTCCAACAAA AACAAATGCA AGGTGAAGAA ATTGCTGAAG AAGATTTACA	60
	AAAAGCGCAA GAACAAGCGC AAGCAATTGA AAAAGATGAA AACATCTCTn CATTAAT	117
20	(2) INFORMATION FOR SEQ ID NO: 1920:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1920:	•
	TGCCTAATGA AACATTTAAA AATATTTTTA AATATATCTA TCAACACATC GTTCTATTAA	60
	TTGGGATTGT TAGTTTTCTC AAAGGATTTT TAGGATTTT CATGGAAAAA AATGGAAGTA	120
35	ATTTATATTT TGTTTCATTC CCGTTTTCAG TAGTCGTTGG ATTCTTTATT GTCTTTTAT	180
	TTATATGGTT TAGTTTTAAA ACAATACAAC TGCAGTGTTT TAACAATTCA AATTGGATAT	240
	GGATATTCAC CTATTTAGCA ATCATTCTAC TAATTGTAGG ATTTTTCTAT GTATTCTTTA	300
40	TTCCACAATC ATTACTTGCC TTTGGACCAT ATATTCAGGT AAGCAATTGG GTATTTATTA	360
	TATTTTCATT TATAGTTATG CCTATNGGAT TACGCATTGA	400
45	(2) INFORMATION FOR SEQ ID NO: 1921:	
- ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(D) TOPOBOGI: TIMEST	

	TCACAGTCAT CATTTNATTT TCGATTTTCA ATAATTGTAT TTTTAATTTA TCTTGATATT	60
	CATTAAGATT TATACAAGCT ATCTTTAACA TTGCCTTATC TTTGATATAT TTCTTGCATT	120
5	CG	122
	(2) INFORMATION FOR SEQ ID NO: 1922:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1922:	
	AGAAGATACC ATACACATTT AATTAGTTAC AGCATAAATC AATTTATACC CTTAATTATT	. 60
20	ACATTGTTTA TATTTTAAAT TCGGGGGAGT AATTTTAAGT AATATCTTGT TGCTGCTAAT	120
	TCTATTGTTA ATAAATTGAT ATTAGATGTA GAAATTGAGT GTGAAAGTTA ATAATAGATG	180
	ATTTAGCTAG TAACATAATT AATTCATATA TAGTCAAAAA GTTCTGTTAG ATACTGTTCT	240
25	TGATGAATAT TCTTTGATGT TAGGTGTTAG CTATTCTAGA TGAGTTTCTT AGATGTGGAT	300
	GCCTGTCTTG ATGAAGTTAT CTATGATGTT AATATAATAC TTGATGTTGA TTCTTAGATG	360
	TTAGTGCGAT TTCAAGATGC TGATTCTTTG TTGTTGCACT ATCTTGGTGA	410
30	(2) INFORMATION FOR SEQ ID NO: 1923:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1923:	
	TTTCTATGGT TTATCAGGTG ATTTTACGGA AAACAGTGAA GATTATGGCG TATACCGCTT	60
	TAAACGTGGA TTTAATGTAC AAATCGAAGA ATTAATAGGG GATTTCTATA AACCAATTCA	, 120
45	TAAAGTGAAA TATTGGTTGT TCACAACATT GGATAAATTA CGTAAAAAAT TAAAGAAATA	180
	GATGTAAATG ATGTTAGGGC TTATAGTNAT TGATACTATA GGCTCTTTTT TATATGTTTT	240
	TTAATAAAGC CTCGAATAAT GATATATTAA ATGACAAGTT TAACAAGTGA TTGCAATAAA	300
50	TATAAATnTG AATTGCACAA CCGATTTGNA AATGATTGAG TTGAGGAA	348
	(2) INFORMATION FOR SEQ ID NO: 1924:	

	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
5	(e) 10102001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1924:	
10	AGGGCAGATT TAAGCTAACT TGGAATGTTT TCGAGTTTTT GAGTTAGTTC TCTATCCATT	60
	TTTTCAGTTA CATGAGTATA TATGCGAATG GTTGnTTGTT CATCTACATG TCCTACCCTT	120
	TTCATAATTG CTTTTAAAGA AACATTCATT TCTACTAATA AAGTTATGTG TGTATGTCTA	180
15	AATGTGTGCG TGGTAACTTT CTTATTCATA TTTAAAGCTT TTGTACGTTT TCTTAACGCA	240
	CACCGGCCAT TTC	253
	(2) INFORMATION FOR SEQ ID NO: 1925:	
·20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1925:	
	GGTATAGGTG CAAGTCCTAT CTTCCGCTCC ATGGTTTAAT GATAATGCGG GA	52
30	•	32
۵	(2) INFORMATION FOR SEQ ID NO: 1926:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1926:	
	TGGTCACTGT TCCTGATGCT TACGTTAGAA TGTAAGATTC CCGATTTATC AGTTATATAC	60
	TGTTTGCTTC ACTTTGGAGA TCTG	84
45	(2) INFORMATION FOR SEQ ID NO: 1927:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•

	CTTTCTAAAT AATTCTAGTA TAGTTTTTAT TCAAATACGC TAGGCTCAGA GCTATT	56
	(2) INFORMATION FOR SEQ ID NO: 1928:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Toronogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1928:	
15	GCAAATTGTC ATTAGACGGA GTATTATTTA GAATTTTCGG TGATATCCAC CGGCACAAGA	60
	TCGATGTTGG ACAATATCTA ATATACTGAT ACGCATTTAA ATAGAAGAAG GGAATTAGAG	120
	TTTGGTTnTG AATGCAAA	138
20	(2) INFORMATION FOR SEQ ID NO: 1929:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
25 ·	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1929: ACATCTTTAT ATGCTTCAAC ATCAAATACA CCACATATTG GTAAACAACA AA	52
	(2) INFORMATION FOR SEQ ID NO: 1930:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1930:	
	TITAATGTTC ACAACACCGG AATAATAATA ACTAAAGCGC CGCTAATAAA T	51
45	(2) INFORMATION FOR SEQ ID NO: 1931:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACGAAAAATA AATAATCATT TCACCTTTAT AGCCAGTATT TTTAATTAAT	ATATTTTCAT	60
	CTATTAGCGC TTCTAAAAAT CTATTTGACT TTTGAACATA CTCTTTAGCT	ATATTATTAA	120
5	CAACAGTATA GGATTCCTCA TAATTTAGTT GATTAAATTC TGAGTCGTTC	ATTAATTCAA	180
	CTAATCCTTT TATTACTTTT TGTACAACAT TAATATTTTT ATCAAAATCA	AATTTATCTT	240
	CCTTAGATAA ATTAATAnnn AAAGTCTTAA GAACATTTGT AAATAGCTCT	GCAACACTTA	300
10	TAGTTTGGnC AAATTCCTTA AATTTATTTA CACAGTACTC ACACATTAGT	ATAAAAATTT	360
	ATGGATTGTT GAATTCTGGA TTTAATATAG GTAACTTAGG		400
15	(2) INFORMATION FOR SEQ ID NO: 1932:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20	(b) Toronogr. Timear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1932:		
25		mma common n	60
	ACTTGCGGAA nGACGCAACG TTTATGTACG TTGGAAGAAA AATTCAGGAC	TTACGTTCAA	60
	AACTACCATA GCAATATGCA TTGAAAGATG ACAGTATGCG		100
	(2) INFORMATION FOR SEQ ID NO: 1933:		
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
35	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1933:		
40	CGCTCTGCTT TAAGCGTTGG GACTTTGTCA ACGGTAGTGG ATGGGAAGTG	GTTCTGCTTT	60
	G		61
	(2) INFORMATION FOR SEQ ID NO: 1934:		
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
50			
	(wi) CROSTENCE DESCRIPTION, SEC ID NO. 1934.		

	(2) INFORMATION FOR SEQ ID NO: 1935:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1935:	
	ATGTATTACG GTTTAATTAA GCCACATACC AACAAGATTG CATTTATGGT ATCTCA	56
15	(2) INFORMATION FOR SEQ ID NO: 1936:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1936:	
	TCGCACCAGA AACAAGGGAT TGTTAAAATT GCGTAAATCC TTAAATTTAT TTGTAAATAT	60
	A	61
30	(2) INFORMATION FOR SEQ ID NO: 1937:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 -	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1937:	
	ATGAATAATC ATATTTCTAA TCAAAGTAAT AGCATTTATA TTGTGTTTAA A	51
	(2) INFORMATION FOR SEQ ID NO: 1938:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1938:	
55	TTGCTGAAGA TAGAGGCTTC ATGAAGGTGG AGAAGTTAGC TGATTTCTGG AACAGG	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1939: ATCTCAATGT ATTCCTCTAG TGTAAGTTCT TCATAAATAA CCGGTGATTC C	<u>,</u> 51
	(2) INFORMATION FOR SEQ ID NO: 1940:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1940:	
	CTCAGGTCGA CTCTAGAGGA TCCCCTGTTA AATAAAACTT CTTAAGCACA TACTTATTTC	60
25	ACTATGCCTT TTACGTTCCC CTTATACTTT TCTCACATCT TTCTCTTAGA CTACTCCCTT	120
	ATACGCCCCG CTCAATATCT TTAATCATTT CATCTACAGT TATTTTCGCA CTCGTTAAGA	180
30	CAATAGGAAC GCCTGGCACC TGGATGCGTA CTTGCACCTG CAAAATATAW ATCTTTATAA	240
	TCTCGCGATA CATTYTGTGG ACGATAATAA TTACTTTGCG CTAAAGTTGG GCATTAAACC	300
	GAATGCCGAA CCAAATTC	318
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1941:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torologi. Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1941:	
	CCGGGAAAAT TTTTGGAATT AAGTGGAAAA AAAATCCCCT TAAAATTCCC CTGGCCA	57
	(2) INFORMATION FOR SEQ ID NO: 1942:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 5	(0) 1010201. 22.002	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1942:	
	TGTTCTTCTT TTGAATCTGT TTTATTCGTT TGTTCCTCTT TTTTCTGTTC ATCTTTCAT	A 60
5	TTTCCACATC CCCCAATAAA AATGATTAAA AGTAATACAC TCATGTACAA AGCAATTTT	T 120
	TTTATATACT CCATCATTTC ACATCTCTCT GTTTTAATTT TATAAACATT TGAATATTT	C 180
10	ATACAACTTA TTAAAATAGT GATTATTCAA CTTTTATGTT ATCAAACAAA ACTAACTTA	T 240
	TCAATITAAT ACATGTAATT CATTTTAACT TTATTATTAA ATGTTCTAAC GTNATTTTT	т 300
	ATATTAGTAA TTATATTTAT TTATCCTCGC TTGGATTAAA GTAGATACTA TCTGTGAAG	т 360
15 ,	Anatattttc tgccttgn	378
	(2) INFORMATION FOR SEQ ID NO: 1943:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1943:	
	AAGAAGAAGT CAAAATTCAG CTAAGTAAAA GCTCGAGTTA TAAAAAAGTC TAAATTGAT	T 60
30	CAACAGGAGT AGAAAAGGAA ATTAGTCTTG CATATTTTAG AAAATGAATA AAAACAGTT	A 120
	CTATATGCAA CTCAAGAATT AAATATTATT TAAGCCACAT ACCTATTAGA GTACAAAAT	A 180
	TACAAGTTGT ACTTATATCT AGGTATGTGA CTTTTGATTT TAAGCGTAAA GTAAAAGTT	T 240
35	TTATGTTTGT ATTAGTTCTA AATTATTTTG CACTTGGATG ACACGTATTT TTGAGTTTA	00E A
	GTGGTGACTC AAGTTCAATA AAATAAATAT CAGATAGGAT AATTTGANAA TNATATGAA	A 360
40	GGGTTATCTC CAAAATNATC TCCATATTAT AAGG	394
	(2) INFORMATION FOR SEQ ID NO: 1944:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1944:	
	TATTCGTGAT GACGATTGTC GGTGACATGA AGTTCTATTT GCTGGCACTG AT	52
	(2) INFORMATION FOR SEC ID NO. 1945.	

5	(A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1945:	
10	CGTTTAAAAA ATGATATCAA TCTTTATTGT GGATTGCAAC ATCCGTGTGC TCCATAAAAC	60
	GTGTGGCGAG ACTTGGGAAA GG	82
	(2) INFORMATION FOR SEQ ID NO: 1946:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1946:	
25	GTATTATTGA TGAAGAAACA GCTCTCCAGT TGTAGATGCA TGCTACGTTC ACGTTACCAC	60
	TGTATCAATT	70
	(2) INFORMATION FOR SEQ ID NO: 1947:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1947:	
40	TATCACCAGC ACCAAGGNTA ATGACATGCT GATCTTTTGC AGTTATGGTN	50
	(2) INFORMATION FOR SEQ ID NO: 1948:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1948:	
	ATTGTATGAA TCTTTGGGGA ATGAACTTTm AACGAACGGA CATCTTGCAA TGACGCATCA	60
<i>55</i>	AAATGGTTTT AACACATGTA ATCGGCTCTC GGTACTATTC GTGTGATGTA CACATGG	117

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1949:	
	TTTGATGATT TCGGGATGGA TTGGTATTGT GGTGAATGAA TTTTTTAGCT CATCATCAAA	6(
	TTAG	64
15	(2) INFORMATION FOR SEQ ID NO: 1950:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1950:	
25	CTCTAGTGGC CATTCATATT TGTCGCTGAA TGATGTTGGT ACATCCATTG CTGCTGT	5
	(2) INFORMATION FOR SEQ ID NO: 1951:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1951:	,
	CTGTCCTTCT GAAACTTGGG TATTTAATTA GGAATAGTTA AAAAAATCAT TCACAGAAAC	6
40	ATTTAATA	61
	(2) INFORMATION FOR SEQ ID NO: 1952:	
4 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1952:	
	TTAAATTAAC CTTAAGGTTG GNATTTTTAA CCCCCAAATT TTTGGGGTGG TTAAAATTCC	6

	(2) INFORMATION FOR SEQ ID NO: 1953:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1953:	
	GACATTTACA CCTGCTTCAA TCTGGTCCAG TGCAGCATCT AATTCTTCGA	50
15	(2) INFORMATION FOR SEQ ID NO: 1954:	
00	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1954:	
25	ATTTGGCCAA CTGTTCAGCA CGGTATTGGT TCAATGCAAC ACTTTATCAT TGCTTCAGGG	60
	CTATATCGGT GGTATGGGnT GTATCACTTC TTAGAACGTG GTATTAA	107
30	(2) INFORMATION FOR SEQ ID NO: 1955:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1955:	
40	GAAGTGAATA TGAAGCTGCT AAAGACTCCG GAATGCTACC TCAGACAACT GATG	. 54
	(2) INFORMATION FOR SEQ ID NO: 1956:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1956:	
	ATGATTATTT TAGTTCCATT TGTTGAGTCG ACTGCTAAAG TTCCATTTAA ATGTTGTACA	60
<i>55</i>		

	ATAAGCAGTA ATTTATGATT GTTTACAGTT TTTAATTTAC CATGAACTTT TGAAGCATTT	180
	GCATGTTTAA TAACATTATT TATCGCTTCA CGCGTAATCA TAACTAACAT AGATTGTTTA	240
5	GTAGGACTTA ATACTTGCGC TAATTCTTTA TTTTCAAATG TAAAATCAAT ATCAGCATCh	300
	nthaaaactt tacgtatact atcaatctct tcaataaatg atggtaattt tacatcatca	360
	ATAAT	365
10	(2) INFORMATION FOR SEQ ID NO: 1957:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1957:	
	AAATAATGTC ACAAAAGTTA AAGATACTAA TATTTTTCCA TATACTGGTG TAGTTGCTTT	60
	TAAAAGTGCA ACTGGATTTG TAGTTGGAAA GAATACTATT TTAACAAATA AACATGTGTC	120
25	GAAAAATTAC AAAGTGGGCG ATCGTATTAC TGCACATCCA AATAGTGATA AAGGTAATGG	180
•	TGGTATTTAT TCGATTAAAA AGATTATTAA TTATCCAGGT AAAGAAGATG TATCAGTCAT	240
30	TCAAGTTGAA GAGCGTGCAA TAGAACGTGG ACCAAAAGGC TTTAATTTTA ATGATAATGT	300
	AACGCCATTC AAATATGCGG CAGGGGCTAA AGCTGGTGAG CGAATT	346
	(2) INFORMATION FOR SEQ ID NO: 195B:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1958:	
45	TTTTCCAGTT AATTTTTCCA GTTCACTAAA TACTTTATTG ACTGTACCAG ACCCAATAAT	60
	AATTTGGTAT TGTCCCCCAG TAGAAAACGT CCCTTTAACT ACATCCATAT TGTTTAGCGC	120
	CTCTTCATTT ACTAAACTTT CATCATTTAA AACTAATCGT AGTCTCGTTG CACAATGCGC	180
50	CATTGCATCT AAATTCTCTT CTCCGCCTAT CGCGTTCAAA ATTTCTTCTG CGGATTGCTT	240
	ATAATTCATA TATTTAGCCT CCTAATTAGA ACCGGTTCCA TTTATTCCAC TTTATTGTAA	300
	CCGGTTCCAA AAATATTTGC AACACTCTAT TATCATTTTA TATAAACACC TACACCATTT	360

	(2) INFORMATION FOR SEQ ID NO: 1959:	
. 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1959:	
	GATTGCATAT AATAGTAAAA ACATTACATC TTGAACAGTA CTCGTTTTGT	50
15	(2) INFORMATION FOR SEQ ID NO: 1960:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1960:	
	AATTTGAACC AGACACTGAT ACAAGTCACA CCCAGAAACT TTTAAGGACG TAAATGT	57
	(2) INFORMATION FOR SEQ ID NO: 1961:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1961:	
	AACGCTATAT TAGCGATATA CAATGATGCC ATTATCAATA nTACAnCTGn	50
40	(2) INFORMATION FOR SEQ ID NO: 1962:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	/ IN	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1962:	
•	TACAACGTCA GTTGGCAGAC ACCAGAAGAA GGATTCATAA GTATATTCAG GAACTTGTTA	60
	(2) INFORMATION FOR SEQ ID NO: 1963:	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1963:	
10	AATTTTTCCC CCTTTTTAAA TTTCCCAAAA AAAAnCCCCC AAnAAAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 1964:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1964:	
	CAACAAGTAG ATGCATCAGA GAGTAGTGTT CAAACGTTAA TAGATGTGGC ATG	53
25	(2) INFORMATION FOR SEQ ID NO: 1965:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1965:	
00	AGCAAAGGCA TAACTGCTAA TGACCATGTA AATGAGACGA GTCGATCGTG GCCA	54
	(2) INFORMATION FOR SEQ ID NO: 1966:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1966:	
	CTCAAATAAC TGGCTCAACT CAACCGGTCT ATAACACCAT AACACCGCAT GCCACTCTAG	60
50	CATACTCAAT CGCTCTGGTA CCAGCnCTCA AATAACTGGC TCACGCCAAC TGTCTATAAC	120
	ACTARCACGO ATGCACTOTA GOOTACTORG AGCTOTGGTA CAGCACTORA TAGCTGACTG	180
55	TCACAGTCCA CACACACTCA ATACTGGCTG ACACAGTTCA CACACAGCTT ACTCGCTCTC	240
~~		

	(2) INFORMATION FOR SEQ ID NO: 1967:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1967:	
	CAGTITAAAC TCGATGTTGT GTACTACTGT GCCAGCTGGA ATGTTTTATA ATGGTGATG	59
15	(2) INFORMATION FOR SEQ ID NO: 1968:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1968:	
	GTTACATGGC ATCACGCCAA ACCTGTCTAT AACACCATAA CACGGCATTG CC	52
	(2) INFORMATION FOR SEQ ID NO: 1969:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5B base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1969:	
	ACAATTTTAA TTATATAACT CCAGGGGCTA CAGTAATACG ATTTCTCCAG ACTCCAAA	58
40	(2) INFORMATION FOR SEQ ID NO: 1970:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		٠
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1970:	
	TGACGTATAA TGGATGAAAG TCTATTAAGT TTAAGAAGCT AATACTGTGA AATCTTTCT	59
	(2) INFORMATION FOR SEQ ID NO: 1971:	

	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 .	(a) 10102011	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1971:	
10	TATCATGTTA TCTTCAATCG TTCACCAACA GTCATTTGCT GCATCAGTAA CG	52
	(2) INFORMATION FOR SEQ ID NO: 1972:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1972:	•
	TTGCTGGTGC CATAGACTAC ACTTGTTTGA TATCAGAAAT GGGATCTGTT CCATTACC	58
25	(2) INFORMATION FOR SEQ ID NO: 1973:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1973:	
35	AGTTAAACCG AGTCCAACCC AAACCTCCAA TCCACCTAAT GGTTAAAATT CCAAACCATT	60
*	ACCAGGAGG GACCAAAAA CGGAATGGGG CCTATTGGTA GGGTACCTAT CCCATTTAAA	120
40	AATCCATCCA AAAGCCCANA TTATCGGACC ATTTTCGCCA AAAATAATTT AAGCGGAAAT	180
	TGAATACCTT AAAATTCTCh GGGCCCACT	209
	(2) INFORMATION FOR SEQ ID NO: 1974:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1974:	
	ATCTGAGTAT TTATAACATA AATCACTAAT ATCGTTATTA CATAGGGATA GGGTAAAAGT	60

	(2) INFORMATION FOR SEQ ID NO: 1975:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1975:	
	TTCCTGCATC CGAGTCTGAA TCGCTGTCGA ATCACGTCGA GTCGATCGCT ATCAGGTCGA	60
15	GTCGCGTCGA ATCGNTCGCT ATCGAGTCGA TCGCGTCGAA TCGAATCACG TCGAGTCG	118
	(2) INFORMATION FOR SEQ ID NO: 1976:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1976:	
	TTGCAACHTT TGATCTAGAT ACTACCTTAG TTGGATTGTA CTACTTGATT CTACTTCACC	60
30	TTTAGTTGGT TTTGTAGCAG GCGTTTTGTC TTTACCTGAC TCACTAGATG CGTCATTTTC	120
	TTTTTCAACA CTTGGTAATT GTTTATTGTC ATCTTTTTGG CTGTCTTGTT TTTGTGATTC	180
	TTTTTCAACA GGTGATGGTG TTGGTTTGCT AGGCGTACTG GAGTAGCTTC CTTCTTAGCT	240
35	GAGTTATCTT GTTGTTCTTT TTTGTTAGAT TTATCGGTAT TGGCTTTTGT AAATGCTTCT	300
	NTATCAACGA TTCTGACATG GTATTGTCCA TCATAATCAA TCGTTTTTAC GTGAACTTTA	360
	ACGATAGCAT CATATAGAGT TTACCTTCAA CATATGGGAA	400
40	(2) INFORMATION FOR SEQ ID NO: 1977:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
50	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1977:	
	TAGACAAAGA CAGTAACAGT AAAGTACGCT TCAGAACTGA TGGCTCACTG CGAGTATAAA	60
	AACTTGTAGT GTCC	74

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1978:	
	ACTCAAAAAC TCGGAAAACA TTCCAATTTA GCTTAAATCT GACCCTTTT TTGACCCTTA	60
	TATTTTTAC AA	72
15	(2) INFORMATION FOR SEQ ID NO: 1979:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1979: ATGTCATTGG CTTTGAACTT TATCTTCAAG CACCCAATCG TTTTAACTTT TCAAAATTTG	60
		69
30	GCACCATAA (2) INFORMATION FOR SEQ ID NO: 1980:	03
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1980:	
40	CAGAGAGTTG TCGCTCATTA AACGCCACNT GATGAGTTTT CGCTTACGAA GTGCCACGCG	60
	GTATGGATAA TTTTCACCTG TTGCTGAGTC TTTGATAAGC CTCGACTGT	109
	(2) INFORMATION FOR SEQ ID NO: 1981:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1981:	

	(2) INFORMATION FOR SEQ ID NO: 1982:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1982:	
	GAATCTGTTC AAGTTAGAAT TATCCCGGCA TAATGATAAA GGCGAGTAAA TGG	53
15	(2) INFORMATION FOR SEQ ID NO: 1983:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1983:	
.25	GNCTTTTGAA TAAAGAAAAA TTCATCAATA GAAAAACCGT CTTTATCGTC TATTTTTTTA	60
	ACTAGTAAGT TCGGCGTTCT TAGAGACTCA AATATTGATT TTACGTTTTT CTTTGTTACA	120
	CCACTAACAC TAAATATTCT TCCATCTAAA TCTACTAATT CTGGTACCGC AAAGACATCT	180
30	AAACCATGTG TTTTTTCTTT GTATTTATTT TCATCTTTTC CCAATAAAAA CACTTGGAAC	240
	TTTTGATTTn GT	252
3 5	(2) INFORMATION FOR SEQ ID NO: 1984:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1984:	
45	CGTGTTAATC AACTAATTCT TAGTTTTAAC TGTCGTAATA ATCAACTGAA CACTTTCAAT	60
	CTA	63
	(2) INFORMATION FOR SEQ ID NO: 1985:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1985:	
_	TCCTAAAATG ACCGCTAATG CCTATGGATT GTTATCACCG ACCGCAGGGA CAGCACGACC	60
5	TAC	63
	(2) INFORMATION FOR SEQ ID NO: 1986:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.*
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1986:	
	GGCATATAAA AATTAGAGAA ATTATTTCAA ATGAACAGAT AGAGGCACAA GATGAATTAG	60
20	TTAAACGATT AAACGATTAT GNTTTAAATG TCACTCAAGC AACTGTTTCT CG	112
	(2) INFORMATION FOR SEQ ID NO: 1987:	,
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1987:	•
	TTTATCAATT TGTAACGAAC ATGAATTACA TGTTTCAGGA AAATATATTT CATCCCATTT	, 60
35	TTAAAAAGTA TAAGATTTTA TGAAAAATTA AACCAATTNA GTATAA	106
	(2) INFORMATION FOR SEQ ID NO: 1988:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1988:	٠
	AATGGCGTAG TTACAGCATT TATGATTGTG TTAATCTTTT CTTCTGATAA ACATAATCTG	60
50	TTTGACCAAA AGTATTTAAG TGTTCAATTA ATTAGTTTTA TTATTTACGT CGTATGGCAA	120
	GTTTTATTGA TAATGTTTTA TTATCATTCA AAACCAAAAA ATAATTCATT TTCAAAATTT	180

	TGGTTAGGTG GACATCAGAT TCACTTCCAT GAAAGTAAAT TAATTGAATT TGTTGGTTTC	300
	TTAGGAATTT CTTATGTTAC ATTCAAAAGT GTGCAGTTAA TTATGGAAAT TCGTGATGGT	360
5	TCTATCAAAG AAATTAAAGT ATGGAAATTA ATTCAATTTA	400
	(2) INFORMATION FOR SEQ ID NO: 1989:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1989:	
	TTCAGCTTAC AATAATGAGC AGGTTGGGGT GGGCTCCAAC GCAGAGAATT TCGATAAGAA	60
20	ATTCCACAAA TAATACAAGT TGGCCCACTC CCATTCTGTA ATAAATATAG GAGGTCATTG	120
	TTATGCAAAT AGAACTTACT GATGCAGCAG TAACTTGGTT TAAAAATGAA CTTGAGTTGC	180
	CTGAAAATAA TAAAGTGCTC GTGTTTTTTG TAAGATATGG TGGCGAATTC CAACTCAAGC	240
25	AAGGATTTAG TCCTGCTTTT ACAGTTGAAC CAAAGGAAGA TGTTGATATT GGCTATGAAC	300
	AACAATATGA CGATTTAAAT GTTGTCGTAG CGGAAAAAGA TTTGTGGTAC TTTGAAGATG	360
	ACCACATTAT TGTAAATGTA GTTGTCACGA AGATGAATTT	400
30	(2) INFORMATION FOR SEQ ID NO: 1990:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1990:	
	CAATTTATTA TGTAACTAAT TATAGCATTG ATGAACAAGG CGCTCAACGT AATAnTACAA	. 60
	TTAATGGATT GTTTCACAAG ATGGTAAAGC TAGGATGTCT TTTTATTAAG A	111
45	(2) INFORMATION FOR SEQ ID NO: 1991:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .

	TAAACAAATT CATCAATTGT TAGTGGCATA TCCTAATGTA ATTAGAGAGG AGTT	54
	(2) INFORMATION FOR SEQ ID NO: 1992:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1992:	
15	GAACGATAGA TTGATGAAAA GTTTAAAAAA GTACGTATAT GTTTATTAAG TTTGAGTTT	59
	(2) INFORMATION FOR SEQ ID NO: 1993:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1993:	
	CGAGACCAAA ATATTCGAAC GAATAATTTC AGTGTTTTGC TCCTTTATTA TAGATTCAAG	60
30	CTATGGATAA TAG	73
,	(2) INFORMATION FOR SEQ ID NO: 1994:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(2) 10102001 2211011	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1994:	
	ATCCATACAA ATGTAACAAG CACAATTGCn GCCATACTTn GCATGACAGT	50
	(2) INFORMATION FOR SEQ ID NO: 1995:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1995:	

(2) INFORMATION FOR SEQ ID NO: 1996:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	, , , , , , , , , , , , , , , , , , , ,	
	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1996:	
TC	ANTTAANA TTAATGTNCG TTGGGGCTCT AATAAAATTT GTTTACAACG	50
12) INFORMATION FOR SEQ ID NO: 1997:	
`~	, INICHARITON TON DDG ID NO. 1997.	
	(4) GROUPING GUARAGERT GO	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 61 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	,	
		-
	(-') apartura apartement and to the	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1997:	
		 -
rC.	ATGATTTG AAATGACTTT CAATGACTTG GGTGGGACAC TTGTTGCACA GCTGGATGTG	60
	•	61
(2) INFORMATION FOR SEQ ID NO: 1998:	
_	·	
	(i) SEQUENCE CHARACTERISTICS:	. "
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	• • • • • • • • • • • • • • • • • • • •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1998:	
CA.	IGCATTGA TGNTCTCAAA GAACATGATG AAACAGGTCA nCACATGNCA	50
(2)) INFORMATION FOR SEO ID NO: 1999:	
, ec .	, In order ton one in no. 1999.	
	(i) CROVENIAR GUARACTERIA	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(D) IOPODOSI: IIIIESI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1999:	
:G	TTCGCTAC TGATTGGGTA TACATCTGAT TTAGCAATCT TGCGCACTTG TT	52

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2000:	
10	ATGTGGTTAG ATATCTGCAC ACTTGAACGT TATTGTGGGA TATACTTGGC CAT	53
	(2) INFORMATION FOR SEQ ID NO: 2001:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2001:	
	ATCTCAGTAA GGGTAAGCGT CAAAGTCTGC ACGGATGCTA ATGTTTACCA GGTT	54
? 5 .	(2) INFORMATION FOR SEQ ID NO: 2002:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2002:	
	CTAAAGATTG TAATGCTTGA ACAATTGGTT CAGTGAATTT TTGGAAATTG TGGAAACTGT	60
	TACCATCATC ATCTGTTATA AAACTAAAGT TTAAATTGCC AGTATCATGA TAAACAGCGC	120
10	CACCACCAGA AATTCTTCTT ACTACATCGA TGTTGTGAGC ATCGATATAT GTCTGATTTA	180
	CTTCCTCTAT CGTATTTTGA TTCTTTCCAA CAATGATAGA TGGTCTATTT ATGTAAAATA	240
	AAAAGTAACT TTCTTCTGCT GGTAAATTTT TTAAAACATA TTCTTCCATT GCTAAGTTTA	300
15	AAGTTGGATC TGTAATATTA TTATTACTAA TGAATTTCAT TACAATCTCT CCCTTATATC	360
	TATATATATA CTCTACTTAT TTATGCCTTA ACTTTGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2003:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2003:	
	CCGAAATAGG ACGGGCAGTT GGATTTATTC GAAATGGGTG GCGTTAATAT ATACAGT	57
5	(2) INFORMATION FOR SEQ ID NO: 2004:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CENTENCE DECERTEDION, CEO TO NO. 2004	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2004:	
	NAGTAGTTGA AGGCGACCGC GGTCCACAAG CTGCAAACGT TGTTAAACTA TAATTCTTAG	60
	ATTTGAATCA TTGATTTTAA CTAACACCTT ACCAAGAAGT AAGGTGTTTT TA	112
20	(2) INFORMATION FOR SEQ ID NO: 2005:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2005:	
30	AAATCTTGAC ATAGGCACAG GAATGTATAT TGATCTCGAT CACTTAAGTC	50
	(2) INFORMATION FOR SEQ ID NO: 2006:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2006:	٠
•	AAGGTGGGTT TAAATTTCCC AAAAAAAAAA GCCTTTTAAC CTTTTGGGGG GTCCCCTTTC	60
45	CTTGGAATTG GAAAGGGGCC AAAATTGGAA TAAGGGGNTT GGAAAAACCC AAGCC	115
	(2) INFORMATION FOR SEQ ID NO: 2007:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2007:	
	TGAAGAAATA GCAAATGAAC TCAATATTTC TATTGAACGT CAATATTTCA ACCAATTATA	60
5	TCGCTTCAAT AATCAAGATT TAAAGCATCT TGAACAAGAn TTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 2008:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2008:	
	ATTGGCTACT AAAGTTAAGG ACATGATGGA TTGGATTAGT GGTATGCGCT TTGAAAAGAT	60
20	CAATTAT	67
	(2) INFORMATION FOR SEQ ID NO: 2009:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2009:	
	TATAAATTAG CGTCCTTCAT ATCACAACGA TGATGCTCTG TGCGAAGATC TGATTTATTT	60
	CAATGTGCGC ACG	73
<i>35</i> .	(2) INFORMATION FOR SEQ ID NO: 2010:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2010:	
	CTTTGTTTAT GTTTCGTTTA ATTTGTAACC CTCTCTTTGG ATACCGAGGT T	51
	(2) INFORMATION FOR SEQ ID NO: 2011:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2011:	
	TAACGACCAA GCTTAAAGAG ATACGCTCTT ATGCGATTGG ATAGGTCGTT AAAGTTAACT	60
10	ACAATACCTC ATAAGTAGAT TTAGAATC	88
•	(2) INFORMATION FOR SEQ ID NO: 2012:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
00		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2012:	
	GTCAACCCTT GCCAAGCTTA TATCACGATA CTGGGATGTG ACTTCCGGTG AATTAC	56
25	(2) INFORMATION FOR SEQ ID NO: 2013:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2013:	
<i>35</i> .	AGCTTATAGT ACTTGTGACT TCATAATGGA TGAAGTTGAA GTACCAAAAG AATTAACACA	60
	ATTACACGAA TAATTTAAAT AGAGAGTGTG ATAGTAGGTG GAATTATTAA ATAGTTATAA	120
-	TTTTGTTTTA TTCGTATTAA CTCAAATGAT ATTAATGTTT ACAATACCAG CTATAATTAG	180
40	TGGTATTAAG TACAGTAAAC TTGATTATIT TTTCATCATA GTAATTTCGA CATTATCGTT	240
	ATTTCTATTT AAAATGTTTG ATAGCGCGTC CTTAATCATA TTAACTTCAT TTATTATTAT	300
	AATGNATTTT GTCAAAATCA AATGGNATTC NATTTTGTTG ATTATGGCTT CGCAGATTAT	360
45	CCATACTGGT GCCAACTACA TGGATATAGT TATATATGCA	400
•	(2) INFORMATION FOR SEQ ID NO: 2014:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2014:	
5	TCTTTCGAGG ACAGTAGAGG GTCCACCCTA TTGGACGTGG TACTGTACTA CTTTTAAA	58
5	(2) INFORMATION FOR SEQ ID NO: 2015:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2015:	
	TCTACCTGCA GGCATTCAAG CTTGGCACTT GCCGTCTTTT TACAACGTCG TGACT	55
	(2) INFORMATION FOR SEQ ID NO: 2016:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2016:	
30	TACTCTTAAG CTAACAACGG CGGTTATGAG TCCTTTGACA AGGTATCGGA GGAAAGACCG	60
*	TAAAGC	66
	(2) INFORMATION FOR SEQ ID NO: 2017:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2017:	
45	CCAATAAGCA CACTGCCATT ATTGAGGACG GTACATHTAC GGTTAGACCC AATTGTTCAT	60
	GGCGGTGGGC ACATAGTGTT TGGCTTTGAG GAGGTTACCA TTGCC	105
	(2) INFORMATION FOR SEQ ID NO: 2018:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	•-•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2018:	
	CCTTCCAATA GTAATTGATT GATGTATGAG TATATTAGGT GTGAAATCAA GAGGATTC	58
5	(2) INFORMATION FOR SEQ ID NO: 2019:	٠
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2019:	2
	TTTCCTCGTA GGTGGTTCTT CTTCATCTTC GTTGTTTTGT CCGAAGTTTG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2020:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2020:	-
30	ATAGTTTAGG TGAGGATGTT GNGGTACGAC AGGAAGAAG ACGGCAAACA	50
	(2) INFORMATION FOR SEQ ID NO: 2021:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2021:	
	TTGTCACAAT AATTTCTTCA GGATCATAGG AAAAATGATA ACGATTTTTG AAGTATTGAC	.60
45	TAATTGCTTC GCGAGTTTCT AATAACCCTT TATTGTGAGA GTATGATGTC TTGTCATTGT	120
	TAATAGCATC AATATATGCC TTTTTCACAA CATCAGGCAT CGGGAAGTCT GGTTGGCCAA	180
	TAGTTAAATT AACACAATCA TCCAAATTAT TCATACGATT TGAAAATTGG CGATACTTGG	240
50	GTGGCTCCTA AAATAATTAG GAAATGAGGA NTTNAAGGAA GGTTTCCATT TNGTGGACAC	300
	(2) INFORMATION FOR SEQ ID NO: 2022:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(x1) SEQUENCE DESCRIPTION: SEO ID NO: 2022:	•
	TCATCCAAAT TATTCATACG ATTTGAAAAT TGGCGAATAC TTGGTGCTCT TAAATATTTA	60
10	GAATTAGAAT TTAAAGAAAG TTTCATTTGT GACACCTCAA ATATAAATCA AATATTGTCT	120
	AAAAATTTAG AAATTAATAA TATCATAACA TACTTTTAAA GCAAAAAAGG GTAAATTACT	180
15	TAAGCTTTAT TTGAAAAACG AAAAATGTCT AAATACACTG TAGTAACTAC TTTTCAAAAT	240
15	GAATAAAGTG GTTACAGTTA ATGTACTTAG ACAGTATAAA ATTATGAATC TTTAAACTGT	300
	GATGGTCTTT GTAAATTAAT TATTGGATTT GTCCATTTAC AAACAAAGTT TGTAGATAAT	360
20 ·	ACATATACGA TGATTACAGA TATACTTATT AAATAAAGAT	400
	(2) INFORMATION FOR SEQ ID NO: 2023:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2023:	
	TTMAAATATA CCAATCACGT TCATCCACAG TGATCCTAGA CCAATCCAGA	50
	(2) INFORMATION FOR SEQ ID NO: 2024:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2024:	
45	TTTTTAATGG TTTAAAAATT CCCTAATAAA ATTTTGGAAA ACCTAAATTC CAAGGGGTTA	60
٠	AATTCC	66
	(2) INFORMATION FOR SEQ ID NO: 2025:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2025:	
	GTAAGAGCAA TGGCGCAAAA TGCCTGTAAT GATATTGTGA ACGTAATTGA ATCAGTAGAG	60
. 5	GACC	64
	(2) INFORMATION FOR SEQ ID NO: 2026:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
15.		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2026:	
	CTGTCGCTGC GTGACTTAAT TCTTTTGCCC CGTTGGCATA TGAGGAAATG TCA	53
20	(2) INFORMATION FOR SEQ ID NO: 2027:	
25 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2027:	
	CATTTCACTA TTATTGGTTT AGGGTTGTTC ACGTTCATCA TGACCGCACC ACA	53
	(2) INFORMATION FOR SEQ ID NO: 2028:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2028:	
	CAACTAGACA TAGTATTGCT GCATTAATCA AGTCAAGCTG CCACACTAAG AATCGATGCA	60
45	AACGGAATCG TCA	73
	(2) INFORMATION FOR SEQ ID NO: 2029:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid. (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2029:	
	AATAATAATT CTGGAATAGT GTTTAATACT TATTnTCCGT TTAAGATTTC AACTTAATAT	60
5	GGTTTACAGC GCGTAGCTCG TCTAATTCAT CATCACGTGT AGAGTGCTCT GCCTTATCAG	120
	ATCAGTT	127
	(2) INFORMATION FOR SEQ ID NO: 2030:	
10.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2030:	
20	GCAAGTGAAT TGAAGTGACA TGTGGCTGGT GCTTCATGGT AATGATAAAC CAACACCATG	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2031:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2031:	
35	ATAAATATCT ATTTAGATAT AAGTATTGAT AAGTTGCTTG AATTTATAAA GTGAAGGAGT	60
•	AGGTGTCATT AGTATAGT	78
	(2) INFORMATION FOR SEQ ID NO: 2032:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2032:	
50	GAATAGTGTT TATAAAATGT TGACACTGTA GTGGCATATT GTAAATTAAA TATTATTATG	60
50	TGATCATTTT GTTTAAATAT TAGTTATAAG AAGTGAAATA nTCATTTTAA AAGGAGACTT	120
	AAAACTTGAA ACGATCAACG AATCAAGAAA AATTTCTTGA TACACTAATT AGACTTAATA	180

	(2) INFORMATION FOR SEQ ID NO: 2033:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2033:	
	TTTTGTCATC TGTATAGGTA TGCGCGCCGG TGTCTTTATT CACTTTGAAC TGTGCGT	57
15	(2) INFORMATION FOR SEQ ID NO: 2034:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2034: AAGGCATTGG ATATAAGACT TGATGTTGCA TGGCAATCAC ACTGCCTAAT CCTTGCATAT	60
	AA	
30	(2) INFORMATION FOR SEQ ID NO: 2035:	62
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>35</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2035;	
40	ATGGCAAATA CTATACATCG TCCAATTGAT TGAAAAATAT GGTTATTAAA GA	52
	(2) INFORMATION FOR SEQ ID NO: 2036:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(with appropriately and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2036:	
- '	AAGGTGTTTT TATATGCTTA TTACAAATAC TTAACGCGAT GAGTTTCTCA ACCAAATTGA	60

	(2) INFORMATION FOR SEQ ID NO: 2037:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2037:	
	TACCCACCCC CAAACCCAAG GTTTTAAAAA ACCCCTTCCA AAAGCCCGGA AAAACCAAAA	60
15	GGAATTATTT T	71
	(2) INFORMATION FOR SEQ ID NO: 2038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2038:	
	GAATCCCGGA AGTACAATTT GGTACGTGAA GAAAATGGTA GTGGAATTAC	50
30	(2) INFORMATION FOR SEQ ID NO: 2039: (i) SEQUENCE CHARACTERISTICS:	
3 5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2039:	
40	CAGTATCTCT TGGTATTTTA ATTGGTGCTT TATTAAACGT AATTTTACCT TTATATATCG	60
	ATGGAGCGAA GAGTATTTTC GTATACGTTT ATAGTGCGTC TATTTTACCA GGTATGATTC	120
	CTTGGTTTAT GATTTTATTC AGTCATTTAC GTTTTAGAAA ATTACACCCT GAAGAATTGG	180
45	AAGGTCACCC ATTCAAAATG CCTGGTGGCG CAGTAACTAA CTATTTAACA ATCTTATTCT	240
•	TAATATTAGT ATTGGTTGGT ATGGTATTTA ATGTTGAAAC TAGAATATCA GTGCTTATTG	300
50	GTGTCATCTT CTTAACGATT GTAACGATTT ATTATTTTAT TAGATATAAT AAAANTAATG	360
	TAAAGCANAA TAGTATGTTA TAANGAGCGN TACTTATGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2040:	

5	(A) LENGTH: 79 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2040:	
10	AAGCTGATTT TTCTAAATGT TGAAAATCAT AAACTGCTTA ATAATAAATA ACGAGATCTA	60
	AGTAATAGTG CTCCATTAA	79
	(2) INFORMATION FOR SEQ ID NO: 2041:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2041:	
25	AATTGAACGG ATCGTTCCCA ACCGTTATCA ACCCAGACCG GTGTTTGAAC CCAA	54
	(2) INFORMATION FOR SEQ ID NO: 2042:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2042:	
	AATGGGATTG GTTCAAACTG AAATGGGCTG TTAGTCCCTG TAAAACCAAG	50
40	(2) INFORMATION FOR SEQ ID NO: 2043:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2043:	
50	ATTGGNATAA TCAAAGCATT GAATCATACA TAGTCACATT GATTGTTTCC TCAGAGTTTC	60
	AACACTCTAT AACTCATTTT AGTAATTTGC TGATTGCGCA CTTCATGTG	109
5 <i>5</i>	(2) INFORMATION FOR SEQ ID NO: 2044:	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2044:	
10	TTTTATGGAG GTGATGAAGT GGGTGAAGCT GAAAGGAAGC AAAAGCTTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2045:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, .
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2045:	
	TTGGCCCCCT TCCAACCCTT GGAAATTTTA AAAGGCCANT TTTGGGGTAA AACCCTTGGT	60
25	TCCAAGGACC CCCAAAAGTT TTTTAACCTT CCAATTATTA T	101
	(2) INFORMATION FOR SEQ ID NO: 2046:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2046:	
	ACCCTTTCCA AAAAGCCCAT TTTGAATTCC CCAAAGGGAG CCAAATTTAA GATGGCCGCn	60
40	AAAAAGGACC GGGGGGTCCA TGTTTTAATT TAAGCCGGAC	100
•	(2) INFORMATION FOR SEQ ID NO: 2047:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2047:	•
	GTTAGTTATG AGCAACGTAT TAATGAAATT ATTGAGCAGT AATTNACCAG	50
	(2) INFORMATION FOR SEQ ID NO: 2048:	

5	(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2048:	
10	TACGTATTTT CAAATGACGT TGGTGGACGT CACACTCCAT TCTTCTCAAA CTATCG	56
	(2) INFORMATION FOR SEQ ID NO: 2049:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2049:	
	TTTTCCCCCC CCCCCCAAA TTGGGGGTTA AAATTTTAAA AAAAGGGGTT AAAGGGAAAC	60
25	CCCAATTCCG GTTAACCTTT TG	82
	(2) INFORMATION FOR SEQ ID NO: 2050:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2050:	
	TCAGATGGAT GGCAGTTATT TGGTATTCCA TGGGTATAAA GATAGCATAT T	51
40	(2) INFORMATION FOR SEQ ID NO: 2051: (i) SEQUENCE CHARACTERISTICS:	٠
	(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2051:	
50	TGAACGGGAG AAAGATGTTG TTGCATGGTG TCTCGGAAAC GTTTGTGTCC ACGTA	55
	(2) INFORMATION FOR SEQ ID NO: 2052:	
5 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2052:	
	ATACCTGGAT GCAAAGGCAA AGTCGCAATT TTCCCTGTTC TAATGTGTCT AACTTCTCTT	60
10	CTAAAGTTCA GGTT	74
	(2) INFORMATION FOR SEQ ID NO: 2053:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 ·		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2053:	
	AATCTTGTCT GATGTAATGT TCAGGTCCCT TGACCCTCAT ATGCATGAGG T	51
25	(2) INFORMATION FOR SEQ ID NO: 2054:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2054:	
<i>35</i>	CATCGACTTA TAGCTTAATT ATTATAAAAA ATTTCTCCAG ATTTAACTTT CT	52
	(2) INFORMATION FOR SEQ ID NO: 2055:	
40 _	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2055:	
	ACTGACACAT TATATTAGTG AATTATTAAA AAATGATGAG AAAATTAAAA TCATCATGAA	60
50	TGAATTCGGT ACTTTTGATA TTGATAGCAA TAGTATTTCA AATGAAATTG AAGTCCATTC	120
	ATTGATTAAT GGTTGTGTTT GTTGCGATCT TAAACAAGAA CTTGTCTATG AACTAAAAGC	180
	CATTGCTTTA AAAGGGGACG TTAATCATGT CATCATAGAA GCGACAGGCA TTGCGCATCC	240
55		

ACAGTTTCGC TGGATGGGGA GGATCCAGTT GGAAACTAAN (2) INFORMATION FOR SEQ ID NO: 2056: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	400
(2) INFORMATION FOR SEQ ID NO: 2056: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	
TCAAAACTTT GAAGTTGTGC TTGCTTTGCA CCATTTTTAA AATGTTCAGC TGAGAGTA	.TA 60
TCTTCCGCTG TAAAATTTAC TTCTCCTGGA CTTAAAGATT CAATTAACAA CCAAGCCG	AT 120
AACGTATCAT TTAGCAATTG ACTCATGAAA TCCCACCTTG TTCCCTATTT GTTTTTTA	CT 180
TAATGCTATT TTAACAAATA ATTTAATCAT ATTAGTGTTT TTTCAAAAAT ATTCATAT	'AT 240
TATCATTACC ATATTTATTC AACAAATGTT TGTAAAATCC TCACTAATAA AATTAATC	GA 300
TATGACCATA ATTCATTATC CAATAAATGA CTATAAAAAT TTCTnCTATG CCTTCATT	TG 360
CAACTAAATT TGGACATCAA AAAAGAGCAC TCCTGAATGA	400
30 (2) INFORMATION FOR SEQ ID NO: 2057:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear	
(wi) CROVENCE PROCESTRATION CRO TO NO DOCE	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2057: 40 TTGTTGTTGT GATTTCACAT TTTCAAAATT TTGTTGCATG TTGTTAACTT CATAAATT.	
TGATTCGACT ACATCATTCA TGAGGACGCC TCCTACATTT TTTAATTTAT CACAATAT.	
TGTATTCGTC ATGTTTTAAC ACTCTATATA ATTTGATTTA ACTATTTTTT CAAATGTG	•
45 ATCTGTTAAA TCAAGTAAAT CTAAAAACTT CCTATATAAA TACAAAATTT TATCGTGT.	
GTTGTTATAC GATGAAAATA CTTTTAATCT AATAAAATGA TTTAAATCAA ATACACCT	
50 GCTGATTAAC AACACATACT TGTACTTGCC TCAAAAATAA AAATTACTAA TCATGATT	
ACTITIATAA CAAAATICAA AAATATIGTA ATGAGTATIC	400
(2) INFORMATION FOR SEQ ID NO: 2058:	400

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(with appropriate programmer and TD NO. 2059.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2058:	
10	TCTTTTTACT CGCAATTTTA GGAAAAATGG TTGGATCAAT TGATAAAACC GGAAAATTAT	60
	TAACAATAAT CAATAAAATA TCAAGCATAA TAATTATTAT TGTTGCTCTG ATGATATTAC	120
	AAAAACTTAT TCAATTATTA TTCTAAAGCG TTATGTAGTT GTATTTTAAA AGCGTTATAC	180
15	AAAAGACATA CTTGTGTCTA TGTATAACGC TTTATTTATT ATAAATTTGG ATCAATTAAC	240
	TCAACAAATT TAAATGITCC ATTGTCATAT TCAAATTTCA GGATATTACA ATTACCGATA	300
	TTATGCTTTA ATGCTTCATC TAGTTTAAGG CAATATCTTA AAAATACCNC CCTTANTGGT	360
20	CCATGACTCA CGACTAATGC ATTATTCTTT GGTTTGAGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2059:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2059:	•
	AAAACAACAC AATCAAAAAT ATTGGATACA ACTGAAAAGT TATCAAAGCT A	51
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2060:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2060:	
	TTATCATGTT TAGTAGATTT TAAGAAGCTA GAACATTGTA GATATGATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2061:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2061:	
5	AACGTCGTnA TATCANCTTG CCAAACAAAG ATATTGTCAC CTTTTATCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2062:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2062:	
	ACCATGGTGn ATATGGTCAT GATGATCGTT TGTGCCGGGA GCTTGAGCTG	50
20	(2) INFORMATION FOR SEQ ID NO: 2063:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 81 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2063:	
30	TTTCCCTTGG TTTTGGAATT TAACCAAATT TGGGAGGGAT TTGGGACCAC CCCCAGGATT	60
	TTAAAAAAA AAAATCCCAG G	, 81
	(2) INFORMATION FOR SEQ ID NO: 2064:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Torobogi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2064:	
45	TTTTGGGGAC CTTAACTGGG TGGGTCTGGA ACTGTTTCCC TTTCAAACAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2065:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(-)	-

	ATGATGTATT CAAAAGGTAT CTATAAAATA GCTTTAGTTG GAAAAGATGA GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2066:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2066:	
15	TTTCATCACT GGCATCTTGT AATTTCTTGG TCTCATATCT GGAATTAATA GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2067:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2067:	
	AACCATTAAG AAATTGGATA CACAGAGCAA ATATGGTTAT GATTAGGAAC CATGGCATTT	60
30	ACC	63
	(2) INFORMATION FOR SEQ ID NO: 2068:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2068:	•
	AAAGGCAGCG ATGTTACTCA TACCGAACCT GGTTATATAT GAGCGATGAT GCAATGTA	58
45	(2) INFORMATION FOR SEQ ID NO: 2069:	٠
50 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2069:	

	AACAGGA	67
5	(2) INFORMATION FOR SEQ ID NO: 2070:	•
J	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2070:	
15	CATTTAACCC ATCTTCTTTT TTTAATTCTT CTATACTACG GTTTAAAAAC TCTACAATAA	60
	CTGCCATTTC ATCATCATCA AAGACT	86
	(2) INFORMATION FOR SEQ ID NO: 2071:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 381 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2071:	
30	GTTTCTTCAA AATATGTGTA TTACCTTTTT GTATGGTTAA ATCTTTTAAT TCTATCATTC	60
	TTGTCTTACC TCTTTTGGTG TATCCTCTTT TTCAACATAT GTGATCGATA TGACATATTG	120
	CCCTTTATGC TTTATTTCGA CATACGTTCT ACTAGGTGAA AATCCATTAA ATGTTAATTT	180
35	ATAATCAAGC TTTTCCCCTC TTTCACTATA AGCCGTAATA TTAACATATT GTTGCGTACC	240
	TTTTGGCACT TTGGCATAAC TATACTCCGT TTTTAAGAAA GGATTAAAAC GATCAAGTAT	300
	AGGATGATGT ATGAITGTAA AAGCAATAGT AATGGATAAT ATTAATCCTA ATAATATTGC	360
40 ·	AATGATAAAT TTCATAGTTA A	381
	(2) INFORMATION FOR SEQ ID NO: 2072:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2072:	
	ATCCCCGAAT TGCTTCGCAA ATGTATCATC TTCGAGGCTA CGTTACTTAA AT	52

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2073:	
	CCAAAAACAG CATCACTGTG ATTATGGTTT TCATCTTCTA TAACTAAGAA TACATGTTTT	60
	TTTGTAAAAA TTTTTTGAT CA	82
15	(2) INFORMATION FOR SEQ ID NO: 2074:	
20 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2074:	
	TTTATCGCAA TGAGGGAAGA TAAAGGATCC CGAAAGCGCC GTATGGGTTG GCAAACATTG	60
•	GGGACCAAGA CCGTTCCCCA TA	82
30	(2) INFORMATION FOR SEQ ID NO: 2075:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2075:	
40	CTTGGTTGCT CTTTATTTAT TTAATTGAGA CCTAGAAATA AGTTATTAAG CACAATCATT	60
	CACTTT	66
45	(2) INFORMATION FOR SEQ ID NO: 2076:	-
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2076:	

.

	(2) INFORMATION FOR SEQ ID NO. 2011:	
· . 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2077:	
	TACGTTCTAT CATAGAGCCT GGAGATGAAA TTATAATACC GGGACCAATT TATGCAGGCT	60
15	ACATACCACT CATCGAAGTA CTAGGTGGTA AACCAATTTA TATTGATACA ACAGCAACAC	120
	AATTTAMAAT TACACCTGAT GCATTAGAAA GTCATATTTC TCCAAAGACA AGAGCTGTCT	180
	TGTTAAATTA TCCGACTAAT CCAACTGGCG TAGTTTTAAA AAGAAALGAA GTTYTA1ATA	240
20	TCGTAAATGT ATTAAAAAAA TATCCGTTAT TTATTATTAG CGATGAGATT TATGCTGAAA	300
	ATACATTTAG TGGTAAACAT GTATCC	326
	(2) INFORMATION FOR SEQ ID NO: 2078:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2078:	
35	ACCCCTTAAT TTAATTGATG TTTTGTTATT TTTAAAATGA ATAGTTGAAG AAAAAT	56
	(2) INFORMATION FOR SEQ ID NO: 2079:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topobogi. Timeai	,
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2079:	
	CACGTACTGC CATGTATGCA CAAGCCGGCA TTCATAAAGC CTTCCATGGC AGTCGTTATC	60
50	A	61
	(2) INFORMATION FOR SEQ ID NO: 2080:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2080:	
	TGGGACAGGG CGTACCATTT CAAAATGATA GTTCTGAGCT GCTAATTAAT ATGCCTTCGA	60
10	AAAAGATGAG TTTAAATTTA GATGATGAGA CTGA	94
	(2) INFORMATION FOR SEQ ID NO: 2081:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2081:	
	AAGACGACAT GCAAGACATT GCCTTATCTA ATGACAATGT TAAAGCGAGT	50
25	(2) INFORMATION FOR SEQ ID NO: 2082:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2082:	
<i>35</i>	TTGTTCGGCT AAAAATAAAG TGGCATTGAC GTGACCGCAA GTTGACGTAC	50
	(2) INFORMATION FOR SEQ ID NO: 2083:	,
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
;•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2083:	
	CTTCCCAACA TTGCGCACTG AATGGCGATG GCGCTGATGC GTATTTCTCC TACGCTCTnG	60
50 .	CGTATTCAAC CGCTATGGGC ATCTCATACA TCTGTCGATG CGCTATTAAG CAGCCCGAAC	120
	CGCACACCGT GAG	133
	(2) INFORMATION FOR SEQ ID NO: 2084:	

· 5	 (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2084:	
-10	GGTAGGGGCA CTATTTTGTA TGTAGAGGTT TTGTCGGGCA GTGTGAAATC AACGACT	57
	(2) INFORMATION FOR SEQ ID NO: 2085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085:	
	CCCCCCCAA AAACCGCCCC CCCCAATTTG GCCTTTTTCC AAGGGGGGTG TTTTAA	56
•	(2) INFORMATION FOR SEQ ID NO: 2086:	30
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
·30	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2086:	
35	AATAGCGAGA GCCCGACCAT CGCCTCCAGA TTGCGACTGA ATGGCAATGC GCTGATGCGT	. 60
٠.	ATTTCTCCTA CCATCGTGGT ATTCAACGAT ATGGGCACTC TCATACAATn GCTC	114
40	(2) INFORMATION FOR SEQ ID NO: 2087: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2087:	
50	AAGGGGGAAA AGGAACCCAA GGCCCCCTTC CCAAGGAAAT TGGGGGGTTG GAAAAAACCA	60
	AAAATTTTTT AAAAACCCGG	80
•	(2) INFORMATION FOR SEQ ID NO: 2088:	
55	· ·	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2088:	
10	GGGGTAAGTG GTTGAGACAG GAACTTTACA AGAGGTGTTT CGTCATCCTA GAACGACGCT	60
	TGCTCA	66
	(2) INFORMATION FOR SEQ ID NO: 2089:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2089:	
25	ATCAATGTAT TACGTATCGA AGGTGAATTA TATCATACTG CTAAATATGA CGGTTTCACA	60
	TC	62
	(2) INFORMATION FOR SEQ ID NO: 2090:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2090:	
40	GAATTCGCTA TCCTGAAATC CTGAGTCGCT GTCCTGAAAT CTGAAATCGC	50
+0	(2) INFORMATION FOR SEQ ID NO: 2091:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 74 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2091:	
	CGGGGTTCCC CCGTTCAATT CCCTTTGAGT TTTCAACCTT GCGGGTCGTA ATTCCCCAGG	60
	CCGGAATTGC TTAA	74
EE	:	

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2092:	
10	ATTGTTGGGT ACGGTGGTGG GTTAATAATC CAAACACGTT AAACTACCCG TTTTAGATAT	60
		70
	ACCTATACAA	, 0
15	(2) INFORMATION FOR SEQ ID NO: 2093:	
20 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	A LA COMPANIA DE CONTRETANA CON TRANS. 2003.	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2093:	
	GTTTTGGGTC TTGGGTATTA GTTTAATCTC CATCATGGTT AATTGGTATG GTATTGGTAT	60
	TAGTAATCAT GTATGATGGG CTGGGCGG	88
30	(2) INFORMATION FOR SEQ ID NO: 2094:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2094:	
•	TGGCCATTGA GGCGCATTAC GTACTACGGC TTGTCGTAGG GACAATTATT AT	52
	(2) INFORMATION FOR SEQ ID NO: 2095:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2095:	
	ACTTGATGCA ATGAGTGATG CAAGGCGACT GAAAAGTTGG TATGAATGAC AAAACTTTAA	60

	(2) INFORMATION FOR SEQ ID NO: 2096:	
5.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2096:	
	ACTTAAAATC TAATACGGTA TTTTCAAAAA CGAATAAAAG TTACCTCTTG TCT	53
15	(2) INFORMATION FOR SEQ ID NO: 2097:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2097:	
	AACTTAATAT TGCTACGATA TGAACGGCAT NAACATACTT AGCGNTGNTC	50
	(2) INFORMATION FOR SEQ ID NO: 2098:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2098:	
40	CAAAATAAGA AATTAATTAA GAAAATGCCA AGATGCCAGA TGCCATCGGC GGAAAGGAAA	. 60
	TTGCACGTAC GG	72
	(2) INFORMATION FOR SEQ ID NO: 2099:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2099:	
5 5	CCACCCAAAC CCAAAAAATA AAGCCCAAAA AATTGCCAAG GAAGGAAAAG GAAAATTGTT	60

	(2) INFORMATION FOR SEQ ID NO: 2100:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2100:	
	CACCAATTTC TTCTGGnGCT GGATCTCGAC CTAAGTCCTG TAATAATTGA CGTTGAACAC	60
15	GAATTAATTT ATTAATTGTT TCTACCATAT GCACAGGGAT ACGAATCGTA CGTGCTTGGT	120
	CAGCAATTGC ACGAGTGATT GCTTGTCTAA TCCACCATGT TGCATATGTT GAAAACTTAA	180
	ATCCTTTGTT AAAGTCAAAT TTTTCAAC	208
20	(2) INFORMATION FOR SEQ ID NO: 2101:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2101:	
	TAATGAAATT AAGTAAAATA AAAATTATTT CATGGATTGC TTCTATCTAT ATCGAAATAT	60
	TAAGAGGAAC ACCAATGTTA GTTCAAGTAT TTATCGTATT CTTTGGTATA ACTGCTGCAT	120
35	TAGGACTAGA CATTTCAGCT CTTGTTTGTG GAACAATTGC ATTAGTTATT AATTCCTCAG	180
J	CTTACATTGC TGAAATTATT CGTGCAGGTA TAAATGCTGT TGATAAAGGC CAAATGGAAG	240
40	CCGCACGTAG TCTAGGTTTG AATTATAGAC AAACGATGAA AAGTGTAATT ATGCCACAAG	300
	CAATTAAAAA TATTTTACCA GCTTTAGGTA ATGAATTTGT CACTTTAATT AAAGAATCAT	360
	CTATTGTGTC AACAATTGGA GTTGGCGAAA TTATGTTTAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2102:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2102:

	(2) INFORMATION FOR SEQ ID NO: 2103:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2103:	
	TTTAAGGAGA AAGGTCATTG GTATAATCTT GAGAAAGAGT GGCAAGAGTT CTTAAACTCT	60
15	GGGAAAGAGG TGAAAAATAT TAAAATGGAA GTAAAATATA GCGGTAATAG TCAAAGACCG	120
	ACTATATTA AAGTTGAATA TGAAATTAAT GGTGAAAGAA ATATTAGAAG AATATTAAAT	180
	AAGTAGAGGT GCCAACATGA CATTTGAAGA GAAGCTTAGC AAAATATACA ATGAAATTGC	240
20	GAATGAGATT AGCAGTATGA TACCGGTAGA GTGGGAAAAA GTATATACAA TGGCTTATAT	300
	AGATGATGGA GGAGGTGAAG TATTCTnTAA TTATACTAAA CCAGGNAGTG ATGACTTGAA	360
25	TTATTACACC AATATACCTA AGGGTATAAC ATTCCGGTGC	400
	(2) INFORMATION FOR SEQ ID NO: 2104:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
<i>35</i> .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2104: AACCATCATA AAATGTTATT AAACCGTCAT GGACCGCGTC ACCATTTAGT CCT	53
	(2) INFORMATION FOR SEQ ID NO: 2105:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2105:	
50	AAGCACAAAT TAGCAGAGTG TTTTAATTTA AATGAACAAG TACCTTTACA ATTTTTTGGAT	60
	AAGCACAAAT TAGCAGAGIG TITTAATTTA AATGAACAAG TACCTTTACA ATTTTTTOGAT AATGTAAAAG TTGGTAAAAA TAATATTTAT GnTGCTTTGG AAGAGTTTGC CAACAA	116
		110
55 ·	(2) INFORMATION FOR SEQ ID NO: 2106:	

5	(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2106:	
10	AATTTGCAAA AGAATCATGG ACAATTGAAA GCAAAAAGGA TCATCATTAA AATTGAACTG	. 60
	c	. 61
	(2) INFORMATION FOR SEQ ID NO: 2107:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2107:	
25	GAACCAATGT TAAGCTAATT AATGGAATCC TAACAGCGTT AATCTATTTA AAAAACTTAA	60
25		
	(2) INFORMATION FOR SEQ ID NO: 2108:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5)	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2108:	
	ATTTGAMAAT GAATCTGTGG AACATTTTGC TAATCATGAG GATAAAATCA TATGATGTTG	60
40	AAAGCGAGAA TGGGATTACG TTAAACGTGG GCGCTGCTAA TTTAAGCACC TTATTTAGTG	120
	GAAGAT	126
	(2) INFORMATION FOR SEQ ID NO: 2109:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
50	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2109:	•.
55	ATAATGTTAA AAAAACGGCA ACTAATCTTT TCATACTAAC AATGATTATA TGTACAATAA	60

	CGTTAATAAT GCTAGATAAT TTTAAAAAAA TGAAAAACCG TGAATATCAA AAAGAAATAG	180
5	CAGAAAAAA TAGACATATT AATACATTAA TTGCTGAACA AGAGCGACAT AGAATTGGTC	240
	AAGACTTACA TGATACGTTA GGGCATGTGT TTGCAAGTTT ATCATTAAAA TCAGAATTAG	300
	CTTATAAACT AATAGATGCT GATGTAGANA AAGTAAAAGC TGAATTATTA GCAATTAATA	360
10	AATTATCTCG TGAATCATTG NACAAAAGTC GAGAAATTAN	400
	(2) INFORMATION FOR SEQ ID NO: 2110:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2110:	
	AAGATTTAAT ATCGGGGGTA ATGTTGATTT TCAAATATCG CGATGTGCTT GTACCACCAT	60
25	T	61
	(2) INFORMATION FOR SEQ ID NO: 2111:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2111:	
	TATACTAAAT TATGGCAACT TGGCTCATAT AGGTCGAGTT ACCAGACATA TTCGG	55
40	(2) INFORMATION FOR SEQ ID NO: 2112:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2112:	
50	CGAATAAGTT CTGGGCCTTT TGTTGTTCAT TAGCTTGTTT CTGTTTTGAT TGTTCTGCCA	60
	TTTGAACTAC ACCAACCTTT TAAATTTATT CTAGTGACAG GATAACTAAA ATATATTTCT	120
	TATGCAATAA TTTCCTATTG ATAAGCATTT TCAGATTTTA GTTGTAAATT TTGCCCTAAT	180

	AATITATAAA GAATAAATTC GTCTCCTCIT TGACCTATAA TATATTGAnC ATTATAAGCC	300
	ATGCGATTCA TTCCAGACAC AGCCATAAAC TCTTGTTTAT CTATCATTTT AAATACCATT	360
5	TTTAATTTGG CTTAATGGGA CATTCCGTAT TAAATCATTT	400
	(2) INFORMATION FOR SEQ ID NO: 2113:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2113:	
	TGTTTTCAAA GCATGGTATA AATGCTTTGT AACATAGGTT TTGCCTACAT CAGTATTCGT	60
20	ACTTGTAATA AAAATCCTCA TAAAAAT	87
	(2) INFORMATION FOR SEQ ID NO: 2114:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2114:	
	TTTACAAGTT AAATATAnCA CTAAAAATTT TTAAGTCAAT AAGAATATAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2115:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2115:	
	TGTGCATAAA ATCCTTTTAC TTTTTGTAAT TGATTGTTAT CTTTAACAAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2116:	•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2116:	
•	ATTTAMAACC CAATTCCCCA TTATTTTTTA AAACGGATTC CATGGGTGGA CC	ATTGGAAA 60
5	TTTTAAAAAA ACCATGGCCC CATTCCAAAA AGTTAGGATG GCCAAAAAAGC CTT	113
	(2) INFORMATION FOR SEQ ID NO: 2117:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2117:	
	GATITATCAA CTATTTCCGT ATTTTGATTA TCTCCATACA ATTTCCAATC CTC	TTGGCTTA 60
20	TCAATAAATA ATGATAATGG CTTATCTTTC GAT	93
	(2) INFORMATION FOR SEQ ID NO: 2118:	•
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2118:	
	TGATTACCTT GANACATGAC TTTNCCTGAN TGGTAAATAT TTACAGTTGT	50
35	(2) INFORMATION FOR SEQ ID NO: 2119:	
.40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2119:	
45	AGATATAAAA TATAAAAAAT TATTAAAAGC TATATCCAAT CAAGACTTTA AAG	GGTTAGT 60
	TCCAAATATC AATCAGAATG ATAATTATnC TGAAATATAT ATAATTAACA ATA	
50	CTTAATATAT CATTTATATG ATGATAGAGG TCTATGGCTA GCTTTTAATA ATA	
	TTATGCAAGA TATHCTGAAA AATATAATGA TTTAATA	217
	(2) INFORMATION FOR SEQ ID NO: 2120:	21/
<i>55</i> .	(2) INFORMATION FOR SEQ ID NO. 2120.	

. 5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2120:	
10	AGACTTAGTA AAGTTAGATC ATCTAAAGAT GAGCGTAAAA TTTATATTTA TTTAAATAAT	60
	GGATGATATA TCTAA	75
	(2) INFORMATION FOR SEQ ID NO: 2121:	
15 20 -	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2121:	
25	CACCACCTAC ATTTACTATA TAAAATGTAG GAATGGTAGA TTGATTTAGA TAAACTGGAC	60
	GTATCACTTT AAGTGCTTTT TCAAAGA	87
	(2) INFORMATION FOR SEQ ID NO: 2122:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2122:	
40	TGTTCTTTAG CTAAAGCTTT AGCTTCTTCA TCACTTTTAA CTTCATAAAA ATCTACACCA	60
	GTAGCTTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 2123:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2123:	· ·
55	TANATCTAAA AGGAGAAATG CTGAAGATGA GAGAGGTATT TTTGAAATGT	50

5	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	A LA COMPANY PROGRAMMENT OF THE TO AN ANALYSIS OF THE TOTAL PROGRAMMENT	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2124:	
	TTAAAGGGTA ATTGTTTTAA AAAAAGATTA AACCGAGGAC TTTTAATTGT TAAAACCATC	60
	CCT	63
15	(2) INFORMATION FOR SEQ ID NO: 2125:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2125:	
	TGTAAACGAC TATTACATGA TCACAATCCA TTCAGCGCCA TTATATAAAG GTACTTAATA	60
	TAGGACATCA TTCGCAGC	78
30	(2) INFORMATION FOR SEQ ID NO: 2126:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2126:	
40	TTTGGTCGTG TGCAAGACAG AAGTCGACAT ACTCCAATGA AACATCATGT	50
•	(2) INFORMATION FOR SEQ ID NO: 2127:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2127:	
	TTTGTGTCGA TGCGCTTTTT CACTTCTTCT GAATGCTCGA AATCATTCGT	50

	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
o	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2128:	
•	TGTCTGAAAT GATCATTAGG ATTGCTCCAG CTCAATGTCA GTnGnAATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2129:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2129:	
	TCCAATTACC TACAAAGTGA GTGCTTTCTT GACCAAGTCA AAACGAACTT TTATATTTGT	60
5	CCAAC	69
	(2) INFORMATION FOR SEQ ID NO: 2130:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2130:	
	TTCCAAGGTG TCGCTGACTT TCAACACACT GAATATATAC CTGCCAGTCG GCTGGTCATG	60
0	c .	6:
	(2) INFORMATION FOR SEQ ID NO: 2131:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
o		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2131:	
	AGTTCTTCAG TCCAAATGCG GCATGTTGAC CCACCATAGG CGAGGGCATT TTCACCACGG	60

•	(2) INFORMATION FOR SEQ ID NO: 2132:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid , (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2132:	
	CCCCTCGAGT TTTTTTTTT TTTTTTTTA CTGGAGCAAA ATGAATTTTT TTTATTGTAC	60
15	TTCAGGGCAA CAAGTCAACA GCTGCAGGAA AACAAAACCA GGTCCAATCT ATGATCTAAG	120
	AGGAAGTCAG GAAAGGCTTG GAAGAGAGAT CCAAAGGCCA TCCTGGCAAG GGGAATCCCA	180
90	CATGAGAATT CCTGGGAGAG AGCAGGCCCC AGGCAGCAAG GTCATCTTGC CTGCTTCTCT	240
20	GTAAGTTAAT CCTTCACAGG GAGCCAAGGC TTCTCTTGAC TGCTTGGACA AGAGGGTAAG	300
	GGCCCTGGTT GCAGGATTTG CCAGTGAAGT CATCCATGTC AATAGACCAG ATCATGGCTC	360
25	CTCCCAGGTT AAATTCCTTA AGAACTGAAC CTTGnCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 2133:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2133:	
	TTCATCATAC AACATTACAC TTTGTATGAC TAAACCCAAA TTAACGATAT	51
40	(2) INFORMATION FOR SEQ ID NO: 2134:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2134:	
50	GTGGCAAGCT TTTTTAAGGT CTGACTGCCA TCGACGGATC TATGTTAACA GGTGGATCT	5
	(2) INFORMATION FOR SEQ ID NO: 2135:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2135:	
•	ATCAAAGTCA TCTnCATGGT CNATCACACC ACGCTTTATA TGGTAATTCT	50
10	(2) INFORMATION FOR SEQ ID NO: 2136:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2136:	
20		
•	CGGGATCTGA GGTCGCTATC TGCAATCTGC AATCGCTATC TGCAATCTGG AG	52
	(2) INFORMATION FOR SEQ ID NO: 2137:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2137:	
•	nCTCAACCAC CCACACAACA ACACAACAAG CAGCACCCAC ACACCACACA	50
35	(2) INFORMATION FOR SEQ ID NO: 2138:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2138:	
	TGTATTGTCA TTGTAGACGT GTGTAGCCAA ATCATAAGGG CATGTGATTT ACGCATCCAC	60
	CTTCTCGGTT TGTACCGCAG TACTTAG	87
50	(2) INFORMATION FOR SEQ ID NO: 2139:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	•
5 5	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2139:	
	TTCACCGTTG CGCAACGTTC AAGTTTGAAG TTCGTTTGGC ATGTTGAAAT AAGCACCAGT	60
5	TACACCAAAA CGCCCAG	77
	(2) INFORMATION FOR SEQ ID NO: 2140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2140:	
	ATCTTCTAAC ATTCACTTAG TAGCGTNATT TTTCGCTTAT AATGAAATGT TAAGCATATG	60
20	CGGGATTTAT ATTTTAAAGA GACCTTTAGA TACCATATAT ACCTAGGTTA TTGAAAATAT	120
	GGATACCTTA TATAAGTGAT TTGCAATA	148
25	(2) INFORMATION FOR SEQ ID NO: 2141:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2141:	
35	GCTGGCACAT AGATGATCGT CAAGTCGATC TCGCCAGTCT GAAGTCAAGA	50
	(2) INFORMATION FOR SEQ ID NO: 2142:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2142:	
	TTGTTGTAAA TACTATCACT GTACATGGGT GCTATCAAAA TATTGTCAGT TCGTAAAATA	60
50	(2) INFORMATION FOR SEQ ID NO: 2143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2143:	
	GTAGTATATC TTATTAATTG TATCATGAAG CAATTTAAAT ATCATGACAA TTTAGTTTGA	. 60
10	AAAACACACT TTGTGTTGAC GTTGTGTTTT ATGGGATATA GNATAGTAAG GAATGTAAAA	120
	TGAAGGAGTG AATGC	135
	(2) INFORMATION FOR SEQ ID NO: 2144:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2144:	
25	TTTTAAGGTT TGAAGAAAA AAGTTTTAAA AATTCAAGGA AACATTAAAT TAATTTA	57
	(2) INFORMATION FOR SEQ ID NO: 2145:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
<i>35</i>		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2145:	
	TTTCGAAAGT TTGATAGTCC ACCTTACATT CTCCTACTAT TTTCTGATGT CCCAATACTT	60
40	TATATTATTT AAAGTAATAT AAAAGCAATC TCTTTTGAAG ACATGTTAAC CTAAATATTT	120
-	TTATATATA TATATATA AAATATAn	148
	(2) INFORMATION FOR SEQ ID NO: 2146:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2146:	
	GTTAATACAA TACGGTTAAC AGCACCTTTA CGnTAGTTGC TTTnCTGCAn	50

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 68 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2147:	
	AATCCCCTCT TTTCTCTATT TCCTAAATCA TAGAACTTTT AACAGTAAAA TTCAATCATT	. 60
	AATACATG	68
15	(2) INFORMATION FOR SEQ ID NO: 2148:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2148:	
25	AGGTCCATTT GTAATTTATA ATGTTGACTA ATAACATCTA CAGAATTTAA CGTTCCCATA	60
	CCTCGCCACT GATTGTAAAT AAACAAACCA TA	92
30	(2) INFORMATION FOR SEQ ID NO: 2149:	
3 <i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2149:	
+0	ACCATCCATT AAATCAGGAT CTTCACTAAT AAGTGCTAAA TTAGCAGCGC CACGTTTAAC	. 60
	GTAATCCAT	69
1 5	(2) INFORMATION FOR SEQ ID NO: 2150:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2150:	

	TCAAAATATA TACGATCACC TTTCTGTAAA ATCACACTAT TTTTATTTGC CGCTTCTGGA	120
	TGTTGTTTAA AAAATTGTTG GCCAACTTCA CCTTTTAACG TGGCAAATTG ATAATTTCTT	180
5	GGTAGGTCAT GTTGAATTAA CCAAATGACA TAGTTATAAC AATATATACA GTTTCCATCA	240
	TAATATACGA TTGGCATAAT TTATTCGCTC CTTTAATAGT ACTTATAGTC ATTTTTCCTA	300
10	ATTTAAAAAC ATTTAAACAA GGTTGTCACT TGATAAGTCC TCGCGACACG AAATTGCCAT	360
	AAAATTTATT TTTCAGnTTn ATAT	384
	(2) INFORMATION FOR SEQ ID NO: 2151:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2151:	
25	TGTTGTTTAT CACTATATT TAAAAATAGT CTATAAGGCT TATCAGATGA AGTAGCTGCT	60
25	GGCGTAACAC CACCAGTAAA TGT	83
	(2) INFORMATION FOR SEQ ID NO: 2152:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2152:	
	GTATTCGTAC ATTTTCAGC AATTAACCAA GATGGTTACA AATCATTAGA AGAAGGTCAA	60
40	GCTGTTGAGT TTA	73
	(2) INFORMATION FOR SEQ ID NO: 2153:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2153:	-
	CCCCCCTCCC CCCTCCCCCC CCCCCCCCC GCCCCCCCC	50

	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2154:	į
	TATTTTAGGC TTAGCATTGA TGATGTTGCT CATTTTCAAT AATATAGGAA TTATT	. 55
	(2) INFORMATION FOR SEQ ID NO: 2155:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2155:	•
25	ATGCTTGCTG ATATAATGTA ATAGCGTCGT GATAACGTTG CTGGCTTATA ATATACATTT	60
	GCGAGATT	68
	(2) INFORMATION FOR SEQ ID NO: 2156:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2156:	
40	TAATCTTTGT CGTCGAAATA CAAACTAACT TTTGAGTTTA ATGATGAAGG TACGCATTGT	60
	GTATCACT	68
	(2) INFORMATION FOR SEQ ID NO: 2157:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2157:	
EE	TCATTCATTT TCCTCTTTTC TTTTATTTAA AATGTTCATG GTTGTTTCTC TTAATTCTGT	60

	AGATGCTAAA TGGTCAAATT GAATAATTGT TTCTAGACTC ATTTCATAAA TTTCGAAAAA	180
	TAATTCTTCG GGATTACGTT TTTGTATTTC TCCAAATGTT TCATAAAGCA AATCAATTTT	240
5	ATCAGCAACT GAAAGTATTT GGCCTTCTAA TGAATCATCT TTACCTTCTT GCAGTCGTTG	300
	CTTATAAACA TCTCTATATT GTAATGGAAT TTCTTCTTCA ATAAAGGTCT CTACCATTTC	360
10	TTCTTCAACT TGCGAAAATA ATTTTnnTAA TTCACTACTC	400
	(2) INFORMATION FOR SEQ ID NO: 2158:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 232 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
		-
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2158:	
	TATTTTTTC TTCTAGGCAG TGTTAATACT GCTTCAATTT GTTTTTTACT AAATTGATAT	,60
25	TTCTCTATGA TTGAATTAAT CAATTGATTG TCCATTTACT TAACCCACAC TTTTTCTTAA	120
	ATTTACTCAT TTATTTTAAC ATATTCTAAA ATACTTCTAT TAAGATATGA TACTTAATGT	180
	AATTTCACT TCCAAAACAT TTAAAACGAA TGATTAGGnC ATACTATATT nT	232
30	(2) INFORMATION FOR SEQ ID NO: 2159:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
3 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2159:	
40	CCGTTTTTCC AAAAACTTGA TCATAAACCC GCTCCTTTT TCATCATAAC AAAATAAGAA	60
	(2) INFORMATION FOR SEQ ID NO: 2160:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(D) TOFOLOGI. IIMEAL	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2160:	
	CGATTTACTG CACGACACAT TGCCACATCC TGGATGGGCA ATCTTTTCTC TTACCCGTCT	60

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2161:	
10	ATTAGTTGAA GTTTTTGAGC AATTGAAAGA TATTCAGGGT CAAATAAAAA CGACAAAAAA	6
	AGAATATCAA CAGACCAACA AAGAACTTTC TGCTGTAGAT AAAGAAATTA GAAATATAGA	12
15	AAAAGACCTC ARTGATACAA AAAAAGCACA AAATGAATAC GAAGAGAAAT TGTATCAAGC	18
	ATATCGATAT ACCGAAAAAA TGAAAACACG TATTGATAGT TTGGCAACGC AAGAGGAAGA	24
	ATATACTTAT TTTTTCAATG GCGTCAAACA TATTTTGAAA GCTAAAAATA AAGAATTAAA	30
20	GGGTATTTAT GGTGCAGTTG CGGAAATTAT TGATGTGCCA TCTAAATTAA CTCAGGCAAT	36
	TGAAACAGCA TTAGGTGCTT CATTACNACA TGTCATTGNA	40
25	(2) INFORMATION FOR SEQ ID NO: 2162: (1) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2162:	
3 5	GTGCGTACCA TTGTAATCTT CGTAAACTGG GTAATTATTT TGTCTTTCTT CATCATAAAG	6
	TAATAA	6
	(2) INFORMATION FOR SEQ ID NO: 2163:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2163:	
50	AGAATGGTAA CATGGTAATA ATAAAATATA AACAGAATAC TAGTTAATAC ACTTTATACT	6
-	AGAAAAGAT AT	7.
	(2) INFORMATION FOR SEQ ID NO: 2164:	

5	(A) LENGTH: 325 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2164:	
10	CGATAATCTG TTTTTTTAAA TCTGTTGCTG TTAGATTTAG CACCGATTCG TTTAACTTCA	60
•	AATAATTTTT ATTACCTTTG GAAGAAAGTG GAACTATTGT AACTGTTTCT TTTCCTTTAT	120
	TGTCTTTGTT ATCTAATATT ACACAAAAAT GATTACCAGA AAACTCACTT CCAATATTAC	180
15	TCCCTAGTTT TACATATACC ACTGTTCCTC TACHATATGA TTTATAATAT CTTTHTTTAT	240
	TGCTTGTAAC ATCGCTATGT ATAGCAATTG GAATAAAACT CTAGCCAATG AGGCATGTnT	300
	ATAACTTTCA TGTTTTACT GTCGG	325
20	(2) INFORMATION FOR SEQ ID NO: 2165:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2165:	,
	TAAACCCCTT TTGGGTAAAA AAGTTTGGGA AAATTTCCCC GGGGGGAAAG GCCCCCAAAA	60
	AATTGTGCCC CTCCnCGGGG GAAAATTAAA ATTTCCCCCC TTTTAAAAGG GTTTCCCCTT	. 120
3 5	T '	121
4	(2) INFORMATION FOR SEQ ID NO: 2166:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2166:	
	CGGACAGTTA AATGAACTGT TCAATGAGCC CAGGATGTTG TAAATGGTTC GG	52
50	(2) INFORMATION FOR SEQ ID NO: 2167:	•
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	λ.	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2167:	
5 .	ATTACAGTAA AAAATGGATT AACATTACAA GCGTGTCTTG CTAGAGCAGC CAA	53
.	(2) INFORMATION FOR SEQ ID NO: 2168:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2168:	
	AAAGATTATT TATTTGCAGT CATTAATTGT GATTTAATAC GGTCAGCTTT GTTTGAATGT	60
	ATTAAATTAC nTTGAGCAGC TTTGTCTACT AACTTAACTG CTAAGCTTAC TAAT	114
20	(2) INFORMATION FOR SEQ ID NO: 2169:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2169:	
	AAGGAACCCC CCCCCTTAA AATTTTTGGT GGTTTTAAAA AATTCCTTTG GATTTATTAC	60
	CTTTATTCCT ATMATTTTCC GTTTGGATTT TCCTGGATTA AATTTCCCCA TTAAGCCATT	120
<i>35</i>	TCCGCTTCCC TTATTTTATm ATTTTCCAAA ATTTCCAAAG GTTCCATTTG GGATTTTGGC	180
	AATCCTTTT TATTAAAATG GCCTAAAAAT TTTTT	215
	(2) INFORMATION FOR SEQ ID NO: 2170:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2170:	
50	TATCGTTTTT AGAAATGGAT GTTCTCTCCA AAGATGATGG TATCTAACAT TATCTTATTG	60
	GTATCATTAT GCAACCNTTA CAAAACATTT ACGCAAGATG ATACATTATC CAAC	114

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2171:	
*	ATCACAGATG AGATAACAGA TCCACTGTAA CTTTACAATA AATAAATGGT ATCATAATTA	60
	ACACGTAAAT GGTTTC	76
15	(2) INFORMATION FOR SEQ ID NO: 2172:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2172:	•
25	ATTATCACAA AATGTTGACA CGCAAAAAGT TGGTCAGTTA TCAATATGGT ATATAAATCT	60
	GAGA	. 64
	(2) INFORMATION FOR SEQ ID NO: 2173:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2173:	
40	AAAGGCCAAC CAACCAAAGG CCAAAATTAA CCGGCCAATT CCAAGGGGTT AATTAAACCC	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2174:	- ,
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2174:	

	CACCCCGCAC TCTCCCATCT TTTACCTACT GGCTTCTTTG CATTGCCCTG GCACCTCCGT	120
	CCTCAGCCTC CCAGGCTGTA TTCATTCATT CCCTTACTGA GCACGCACCA TACACCAAGC	186
5	ACCATTCAAG GTGAACCAGT CAAATGAAGG CCTGGCTCAT TTTAATGGGG GACAATGAGC	24
	ATTTTTGTTA CAATTTCATG GAGTGATGAG TGCTGTGAAG AACTAAACAG GTCAGGTGTA	30
10	AGTGGCTCAT GCCTGTAATC TCAGCACTTT GGGANGCCGA AGCAAGTGGA TCATTTAAGC	36
	CCAAGAGTCA AGACCAGCCT GGGGnnACAT AGTGAGAnTC	40
	(2) INFORMATION FOR SEQ ID NO: 2175:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2175:	
	ATATCGTTTA AACCATCAAC AAGATTTTAT AGATGCAACT TTTACTGCGC TGAAATCAGA	60
25	TAGAGCACGT TTAAAAGAAG TGCCAGTTCA TGTTGAACTT ATAAGTTATA TTTCTAAATC	120
	AAAATAAACT GCTATCTAAA ACGCAAAGTT GATCAAAATA TCGATTTTGT GTTTTTATT	180
30	GAGAAATTAT ATAGGAGTGT CAATCGATGA TTTATTGTGA ACAGAGCGTT TAATATTAAG	240
	AGACTGGCAT GAAGATGATC TGTTACCTTT TCAAAAAATG AATGCGAATT ATGACGTACG	300
	TAAATATTTT CCAAGTTTAT TGAGTTANCG NCGTTCAGAA TTAGATATGA GACCTATGGA	360
35	TGCGGTTATn AAAGATTATG GCCATTGGGA TTATTGCCnG	400
	(2) INFORMATION FOR SEQ ID NO: 2176:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2176:	
	TAAATCAAGG AAAGACATTT TAAGGTACGA AGGTTGATAA CAAAAAACCA ACAGATTTAG	60
50	GGGTATCAGA G	7:
	(2) INFORMATION FOR SEQ ID NO: 2177:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>5</i>	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2177:	
	GTTGAATTAG GCAGCACGAT TATTGATGCT GAACTGTTAG AGTCAGATAA G	51
10	(2) INFORMATION FOR SEQ ID NO: 2178:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2178:	
	TTAATTAATG GTATTTACAT ATTCATAACC AAAGGATAAA ATAATTGTGA AATTATTCAC	60
	A	61
25	(2) INFORMATION FOR SEQ ID NO: 2179:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2179:	
	CATTTTACCA TGCAGCAAAT AATACAGGTG GTGCCGTTAA CAAACGTGAn	50
	(2) INFORMATION FOR SEQ ID NO: 2180:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2180:	
50	GCCGAACGAA TCAAATACCA TACCTAATTG ACTGCAGGCA TGTCCATATA GTGCAGTTAA	60
	CTGTCTACAA GGC	73
	(2) INFORMATION FOR SEQ ID NO: 2181:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2181:	
	TACTTTTGGC GATATTCGGT ATCGTTATTA CAGTTATTTT ATATGCAATT AAATTGCCGG	60
10	GTTCTATCTT TATCGGTATG ATCATCACAG CAATCGTTGG TATGTTCACT GGATTGATTC	120
	AAATGCCATC TGGTATTGTG GGTAAGATTC CAAGTATTGA ACCAACGTTC GGTGCTGCAT	180
	TTGAAGCGTT TAAAGACCCA AGTCAATTAT TAACGATACA GTTCTTAATT GTTATTTTAA	240
15	CGTTCTTATT TATTGATTTC TTTGATACAG CTGGAACATT AGAAGCGGTT GCAnCnCAnG	300
	c	301
20	(2) INFORMATION FOR SEQ ID NO: 2182:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	·
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2182: TTGATTCGCC TTGGCCAGAA TTACTTTTGT TTTGGGCGTC ATTGCAAGTT TCTA	54
	(2) INFORMATION FOR SEQ ID NO: 2183:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2183:	
	TTAGTMACAT TGGGACATTT AACTGATCCA CCAGTACTTT TGGCGATATT CGGTATCGTT	60
45	ATTACGTTAT TATTGCATAA TGCGGTCACT ACGAGACACC GCACTGAGTC CGATATCA	118
	(2) INFORMATION FOR SEQ ID NO: 2184:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGATAGTTAT ATAAAGATTT CATCTTCTGT ATTACATTGA TATTTTTAGG TCCCTGTATA	, eo
_	TAAAAATCAT ATGCCTCATC AACAACATCA CTTTTATTTT TGATTGCAAT TTGATGTAAT	120
5	ATCTTTGAC TAAAAACACG ATTAATCATA TTTCTATTAT CCATAGCTAC GCACCTCCTT	180
	CAACATACAT TTAATGCTTA TCCTGTTAAT ATTATAAnCn ATTTTAAATG CCTATAGACA	240
10 .	TTATTTCTAT ACACATACGA TTATMAAATT GTATTGAAAC CAAATGATGG TTGCCAAACA	300
	CAT	303
	(2) INFORMATION FOR SEQ ID NO: 2185:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2185:	
25	CCGGGGTTTT GGTTAAACCC TCCCAAnATT TTTTTTAAGC CCAAACCTTG GAAAAACCCA	60
	GGCCACCCGT TGGAATTTTT AAGCCTTGGA TTAATCCGGT TTGGTTAACC	110
	(2) INFORMATION FOR SEQ ID NO: 2186:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2186:	
	CCTATATTGT CACCCAACTT CATTACGGCA CCTTTACCGA AAGATTTCTC CATATTTTTA	. 60
40	ATTACTGTAT CTAAAGCTTT TTGACG	86
	(2) INFORMATION FOR SEQ ID NO: 2187:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2187:	
	መመከረ መከአር አ.አ. አ.አር አመአር/ር እር. ከመከተር/ር ር አ.መ. መአመስ መተከ መተሞ ከመተረማር ከመከላቸው መተከ	

	TATTTAGAGG TGATAAAATT TGTCAACTAT TACAAAGACT AAAATAAAAA TCTTTATTAA	180
	TTATTTTATT GGTATATTAG CCTTGGCGTT TGCTGCTTAT ATATTATTTA AATAAAGGTT	240
5	AGAGTGAAAC GTGTTTATGA ACTAGACGTT CTAGTATAGT TACTACAGCT TTAGTCAGAA	300
	GGTATCATTG ATAAGATCAT ATTAAATCAA AGAGGCATTG ATATACACTA AAAAGAGGCA	360
	AGATTACCTG CCTCTTTTA GTNATTAAAT ATACGTGTTA	400
10	(2) INFORMATION FOR SEQ ID NO: 2188:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2188:	
	TTTTATAAAA TATCAGACAT TTTTGnTCAA CATACATCTC TTTCGATGTT TCTAATACTT	60
	TATCATTAAC CATTACACCT TAAAGTTATG ATGTGGCATG TTTTCTTATA TTCATAACAT	120
25	CAATTTTATC A	131
	(2) INFORMATION FOR SEQ ID NO: 2189:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2189:	
	CGTAAAATAT TTTGATTTAA AATGGAGGGT ATTAATATGA AAAGGTTCAT GTAAAATCTA	60
40	GGGGTATTCC AATATTATAA GGCAC	85
	(2) INFORMATION FOR SEQ ID NO: 2190:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 20202021 220000	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2190:	
•	CCCGAGGAAT ACATGGCATT AAATACACGT TTAATATTTA TAAAGGTGAC TTAATTTTGT	60

	ATAATTGTTT ATCAGTGATA AAATATTTGC AATAAGAAGA GAATGACTAA ATAATCTTAA	180
	TTTTCAGANA AGTAATTGTA ACCTTACTGG TCTTATGGTA ATAN	C 224
. 5	(2) INFORMATION FOR SEQ ID NO: 2191:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2191:	
	AGCTTTTGTA GTTTTCTTAA GCACACCGGC GATTTGATTA TTACATAAAG GATTCCCTTT	60
	TTTTGTTGTG AATATGAACC CTCTGTCAAC ATAGCTCGAA TTCCATCTTT TCAACATTTT	120
20	GTTTTCCAGT ATTATCTTTT TAAAAATTTC TACGGTTCTA GAATTGATGC TGATACTTCT	180
	TTTTGAACTT ATAGTCTTTG TAGTGTCTTT GTATCCGAAT CCTTTCTCGT ATTTAATGCG	240
	GTGAATTGTA CCTGTTATAT TGATAGTnTT GTTTAATAAA TCTATATCTT TTTCCTGCAG	300
25	Y TGCTTGTAGT TCTCCTATGC GCATACCAGT TAAAGCCTGT ACTTCTAAGA TGCTGGCAAT	360
	TAAAATGCGA TTTCGCTTTT GTAACTTATT ATCATTTAGT	400
30 35	(2) INFORMATION FOR SEQ ID NO: 2192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2192:	
40	GACGACTGAG AGGCCGTTGA ATTTGACGTT GCCATATHTT CAAATTTAAC	50
•	(2) INFORMATION FOR SEQ ID NO: 2193:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50°		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2193:	
	GTTGTTTTCA TATCAAAACA CCGTAGAATA AACAATGAAT GGAATTACTT TTGCAATGAT	60

	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
5	(D) TOPOLOGY: linear	:	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2194:		
0	CCAGTCACTG ACTACGTCTT CCTCGGTGCT GGCGGTGGAG CCATTCCCTT ATTACC		56
	(2) INFORMATION FOR SEQ ID NO: 2195:		
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2195:		
	GTAGGGAAAG GAAAAACTGC TTCCATTGGG AAATGTTAAA CCTTGTTCCT TGGTGAT	GCC	60
5	ATTGGATTT		69
•	(2) INFORMATION FOR SEQ ID NO: 2196:		
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2196:		
	ATATGACACT ATATTTTATA AACATACATT TAATGATTCA TTATACAATT GCCAA		55
0	(2) INFORMATION FOR SEQ ID NO: 2197:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
5	(D) TOPOLOGY: linear		
· o	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2197:		
	GCCCTAGTTC AATCATATAA CCATCTTTAC GATACGATTG AATCTTTCCC CCCGGAC	GAT	60
	TCGATGCTTC A		71

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2198:	· ·
	AGTAGCACAA CAGCCATGCG GAGACAGAGA ATCGTTAGAG ATTAATGGAG ATCA	54
	(2) INFORMATION FOR SEQ ID NO: 2199:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronosi. Tinear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2199:	
25	GGCGGTTTTA TATTTATCGT TGCAGTTATG CAAATTGTAC TTGGTAGAAG TATAGATTCT	60
.5	CGTGATTCGA AAAAAGTACT TTTAACGGGA TTGGGAATAG TAATCATATC TAGCTTTATT	120
	TGTGCAGTGA CACATAACTT TATATTATTT GCTATATCAA GGTTATTTCA AGCAATTGGT	180
10	TGCGGAATTA TTCCTCTCGT GACTTTAACT TTATTAGCCA AACTAAGTAC AGATAATGGT	240
•	AGAGCTCAAG CTATGGCGAA CTATCAAATA TTTTTATCAT GTGCACCAGC TTTGGCACCA	. 300
	ATCTTAGGGA GTACTTTAGG TGGCAAGATG GGGATATATT GGTATTTTAG TTTTTTGGCT	360
15	CGTTATATCT ATCGGTATTA TTTTTGGATA nCTnTnTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 2200:	
o.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2200:	
	GGATATGCGA TGGATGACGC ATTGCTATAT CGGCAATTGn GAAGCTGCTG	50
60	(2) INFORMATION FOR SEQ ID NO: 2201:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2201:	,
	ATCGAATATC ACTACTATCT CTNTTNAAGT ATCTACAATC TCTCCAATCT	50
5	(2) INFORMATION FOR SEQ ID NO: 2202:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2202:	
	TCGACAATCC TAATGCAATT GCTTCATGTG GNTGTGGTAG TTCATATTAG AACTGCAAAA	60
	GTTGCAGGTG ATCCTGAAAA TTGCTAATAA AATAAGTTTT TAATGGTTAA CCCAATTTTT	120
20	GGGATACAAA TTGATATCAA TAACGATTAA GGACATATTT GATTATGTCC TATTTTTGCG	180
	TAAAGATATT TTGTTTTATT AAAAAGCTTA TTGAAAATTA AGAATCTGAC TATAAATAGT	240
	ATTITAAATG ATCGTGATAG CGGATACATT TTTAATCGAA ATCAGGCTAC GAAAAAATTA	300
25	ATTAATTTT TCACAATCTG ACTGAATCTT GCTTGAAAAT ATAACATAAA AGCTATAGAA	360
	TTAGTATTGG ATTAAAAATG TCTTTTTTGT GAACATCACA	400
30	(2) INFORMATION FOR SEQ ID NO: 2203:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2203:	
40	GCGTTGTCCT TTTCGTGACA TGAAACAATG TGGAAAACAT AATTAAATNN AGGGAAAGTG	60
	TGAATAGTTA AAAAATTAGT ATTGTGTTAT AAAAAATAAT TAATACTGTT AGGATTTCAT	120
	TAACTAACTT AACGTTGGTT CAAAAATAGT TAAAAAGAGG TTAATTCATA GCGCAGTATC	180
45	TCACTTATAT AATGATAGTA GATTGTTCGT ATTACGTAAT TGAATTAATC ATATAAAAAT	240
	ATATTAAGAC AAATTTATAA ATAGATTGGG AGANTAGTAC TGTGAAATTA AAAACGTTAG	300
50	CTAAAGCAAC ATTGGCATTA GGCTTATTAA CTACTGGTGT GATTACATCA GAAGGCCAAG	360
	CAGTTCAAGC AAAAGAAAAG CAAGAGGGNG TACCACCATT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2204:	
	GTTATTTTGT ATGGTTAGTC TTTAAAATAn ATATAGATAT TAAATATTTA TTTTACGAAT TGTTAAGTAA AGAAAAAATA TTAATCAATC CGGGTTACAT TTATGGCAGT AAAGAAAAGA	120
	GTATAAGGCT ATCTT	136
15	(2) INFORMATION FOR SEQ ID NO: 2205:	136
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2205:	
	TTTTATTTTT TCGCAATGAA AAACAATCTT TCTGCATCTT CATTATGTTC ATCTATATTA	60
	AAATCAGTAA ATGTTTCAAC ATGTTTAAAA CCAACTTGAG CTAACCAAGA CAAATATGTC	120
30	TTTTCATCAA ATGTTCTCTG AAAATGAGAC TCATCAAATC TTGAATATGT TTCATCTTCA	180
	TGTCGAATGA AAAATGTCAT ATCATGATAA ACACTTAAAG GTAAATCTCC TTGCACAGCA	240
3 5	TCCCATGCTA AAAAAATGTC CCCTTTATCA TCAATATAAC TTTGATTATT AAACAAAGTC	300
	ATCATTTTAT AAACAGTATG TACATCAGAA ATAAATACAC CTGAATCAGT CAGATGATGA	360
	TAAACATTGA TGAATGTTTC AATCACTGCA GTTTCATCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 2206:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2206:	·
50	TTGAATATCA TATAAAAACA TCAGGTTCAA AGTTGACTAC TCTTAATAAT ATAAAAATAA	60
	GAATTAAAAA CATTAAACGA TACTGCTCTG AGAACTTGCT TTTAAACAAA CTTGATACAA	120

	GTCAACTCGG AGATATGAAA GGAGCNATTA AATATGCAGT TAAATTTTAC AATTATCCAA	240
	ATGAATATTT GTTAACTAAT GTCAAAATTC CTAAAAGAAG ANAAACAATA GAGGATATCG	300
5	AAAAAGATGA ATCTAAAATG GTACCACTAT TTAGAAATGG AACCAAGTCC TACNGATACG	360
	TGATCATATA CTAATGGAT	·379
	(2) INFORMATION FOR SEQ ID NO: 2207:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
15 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2207:	
20	CATCTTGGGA CGTTTTAAAA AGTAACGTAG CGAAGACTAT TGGAACAACA ATGAGAACCA	, 60
	ATGCTAGAAG GATCAAAAAG TATTTTAAAA ATTTATTCAT GATTGATGCT CCTATATTAA	120
	ATTTNTGTTA AATCATA	137
25	(2) INFORMATION FOR SEQ ID NO: 2208:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2208:	
3 5	GCGCCGCTCT GTTCATTTTA CCTAAATCCA ACGTTTCAGG AATAGATGTT TTCAAACCAC	60
	TTTGAAATGG AT	72
40	(2) INFORMATION FOR SEQ ID NO: 2209:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
i		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2209:	
50	ATGTAGCAAC TAAAGATGAT AGTGGATAGC GACACGGTCA ATAAACTGCC TA	52
	(2) INFORMATION FOR SEQ ID NO: 2210:	

5	(A) LENGTH: 206 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2210:	٠.
10	TTTTTTATGT TCTTTTTAA TAAGAGGGAA GTGAAGTTGT ATAAAAATGT ATTAAATATG	60
	CACTITITAT ACATTAACGA TICATATATG TCTATTATGT ACCAAATITA TAATTTGTAT	120
	AATTTTCGAA CTGGTTAAAT TCGAAAAATA TCACTAATAT ATHTAGATCG ATGTGTAACA	180
15	TTACGTTCTA nTAATTTAAT GTTGCA	206
	(2) INFORMATION FOR SEQ ID NO: 2211:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2211:	•
	ACGATGTATT TTGATATCGT TACCAAAGTC TTTTAATAAC TCATTTTCAT CTAAATAAAT	60
30	(2) INFORMATION FOR SEQ ID NO: 2212:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	()	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2212:	
	TGATAAGGTT TGTCCCATCG CTATTTGAAA TGATGCATTG TAAAAAAACTA TCATTTGTTG	60
	GTAATATCTT AGTTCGATGA CTTTCTTTCC AATCTTTCCG TGTCATAGAG ACAAGATTTT	120
45	TTGTAGCTAT CTTAGTTGCT TCTTGAATGT TCATTTGTTA TTCCTCCTTT TAAGATGTTT	180
	GTnTTTCTTT AAATGCTAAA ATAATTGATT TCTTTTTATC ATTCGTGAAT ACGAAATTTT	240
	CGTATTCATT ACCTAAAAAA ATATCATCAT ATTTAACATT AAAAGCACTC ATATACTTAG	300
50	AAAGTAAACT AACNTTAATG GNTGTAGAGT C	331
	(2) INFORMATION FOR SEQ ID NO: 2213:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	/	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2213:	
	AGCATAAACC AAAAGATGCG GATATACTTG AACGCGTCAA AGATATACTT AATAAAAAAG	60
10	A	61
•	(2) INFORMATION FOR SEQ ID NO: 2214:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2214:	
•	TCTATTTGAG TTTACATTTG ATTAAATGAA TGACAATTAT ATGAACCTGA CTTGGT	56
	(2) INFORMATION FOR SEQ ID NO: 2215:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	÷
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2215:	
<i>35</i>	ATACCACTAC TATACAGTTA AATTAATATA CGTTAAAACT TTAATCCGAT ACATTGGTTA	60
	AAATGATGTT CCTCGCTGGT GGATCGAGAC ATACTTCGCT CTGACTTCTT TAGTCAGTTT	120
	TTTTTCAGCT TITTAGGTGT AATCACTGAC TTTGTTACAT CACGTCAAAT TTACAGTCGC	180
40	TATTATCTTA ACTTATCNAC GCTTATCACA CATCAATTCA GATATTATAT TGCATTGGCG	240
	nCTATCACTT TGAACCTGCT GTGACTGGAA CTACTGGCTG TCANGAGCGA GGGCTGATAA	300
	TGAGCATAAA GCAACATATA AGTAATACGG CCGAATATGT AAATTCGGCA GCTTTAGGCA	360
45	ATGCTGCCCG GGCATGACTA GNACATTCAC AAGAAGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2216:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2216:	
	TTTTTAAAAA AGGGGTTAAC CAAAGTTTTG GAACCCCAAA AAATTCCGGA GTTAAAAAAA	60
5	CCCCAAAAAA TTAAATTAAC CGGTTATTCC GTTCCAGGAG CCAAATTTTT ATGGTTCCAA	120
	TTnCCAAAGT GGG	133
	(2) INFORMATION FOR SEQ ID NO: 2217:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2217:	
20	TACTCGTACC ATTAACCAGT CTGATTAACC ACAATACTAA GGTATTCAAT ACATCACTGA	60
	CATC	64
-	(2) INFORMATION FOR SEQ ID NO: 2218:	*
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2218:	
	TATTCTATAG AATATGGATA ACGTTTAACA TGATGTAGAG TATTCATCAT TGTAACACGT	60
35	CAATTTGATA TGTGAGATTA AC	82
	(2) INFORMATION FOR SEQ ID NO: 2219:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2219:	
	TTTGACGCAA TGATTTAGCT GTAAATATGC AATCTAAAGG AAAGTACCAC TTATGAGATG	60
50	TATTAAAACG	70
	(2) INFORMATION FOR SEQ ID NO: 2220:	

.

. 5	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2220:	
10	AAAAATTACC CCAAAGAATT GAAAATTTGT TGTTTGGGTT ACCGGGTTTA AGATTAATCC	60
	GGTTGA	66
	(2) INFORMATION FOR SEQ ID NO: 2221:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2221:	
	GATCGCAACC AAAATAATGG TCTTCCTGGA TTATTACTTT ACCAGCTGGC ATAC	54
25	(2) INFORMATION FOR SEQ ID NO: 2222:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2222:	
	GTGTTGCTAC AGCTANCATT TCATATTTAA CGNGTTGTGG TATTTCTAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2223:	
40 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2223:	
	AATGGGGGNA CCCAGCNTGA GTTATGTCAT CATATCGGTA TGTGATACAT	50
50	(2) INFORMATION FOR SEQ ID NO: 2224:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
55		

(C) STRANDEDNESS: double

	(b) TOPOLOGY: Timear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2224:	
	GTAGATGCGC CCTCATATGG ACAAAGATAA AGTATCAGCA GATTGGACGC TTTA	54
10	(2) INFORMATION FOR SEQ ID NO: 2225:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2225:	
20	CGAGACTTCA CTTTGACTAA ACGCGTTAAG AATTTAGATT ATGCTTACGA TGAAGAAGAA	60
	TTA	63
	(2) INFORMATION FOR SEQ ID NO: 2226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2226:	•
35	TGGCCATTTT TAATGGGGGG AAACCTTAAA AAGGGGTTTT TAATTTTAAA CCAAG	55
	(2) INFORMATION FOR SEQ ID NO: 2227:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDIS: double	
	(D) TOPOLOGY: linear	,
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2227:	
	TCCATTTGGT TGCCTTCTTT AAATAAACCT TGGATTATGC CTTTCCTCCG GTTAATTAAT	60
•	GGGACCAGGG GCCAAAAATA CCCCCTTTTA AATATATATT CCCAAAATCC ATAGTTAAAT	120
50	AATCCATTTG C	131
	(2) INFORMATION FOR SEQ ID NO: 2228:	•

5	(A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2228:	
10 `	CCATCTGTGC TTCGTTAGGC GCTTTCGGCA TCACGGTGAT GGTTTGCGAC AGATCCGCCA	60
	TCCGGCTGAA TGGGAAGCCC GCGTTANAAA GGCGCGTAGA TCCGGCATCG GGATGAAGTG	(120
	GTAATACTTC GAGAAGTCGA TGGTGGAGTC GTCACCAATC ACCACATGAT TCTGCACCGG	180
15	CTGGAAGGTA ATACAGTTAT CCACCGAACC GCCCGGCATC GGGTTCATAT ACTCAAAGTC	240
	GAAGCGCACT GGnTTTGGTC GCGCCCAGTT TCAGCGCCGG AATAGAGACA TCTGTTTTGC	300
	CATCCAGCAA ACCTTGTAAT ACCGGANTCC GCAGCAGCAG GCGGTTTCGC	350
20	(2) INFORMATION FOR SEQ ID NO: 2229:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		• •
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2229:	
	AACTAAAAAT ACTATATAAA AAAGGTTGTT ATAATTTAAT GGATATAAAT AAAAACGA	58
٠	(2) INFORMATION FOR SEQ ID NO: 2230:	
<i>35</i> .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2230:	
	GGGCGAAAGC TGGACGGAGC CAACGTCGCG TGAGTGGATG GAAGGTTCTT	50
45	(2) INFORMATION FOR SEQ ID NO: 2231:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGCCATACGT GGTAAGCACA TGCTAAATTT GCCAGCCTGA AAATGTTTAG	:50
	(2) INFORMATION FOR SEQ ID NO: 2232:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2232:	
15	TGTATCATTT TGGCAAAATC ATAATCTTTA TCGTCGAATA CAACTACTTT TAAGTTTAAT	60
	GATGAAGGTA CGCATTGTGT AATCACTTCA TCTAACTTTT TTAAATCAGG TGTCATAGTT	120
	GAACTTGGnG GT	132
20	(2) INFORMATION FOR SEQ ID NO: 2233:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: TURNER acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2233:	
30	GATCTTGAAG CAGTTGAAAC ATATGTATCA GATGCATTAA GACAAGTACA CTTACAATCA	60
	GACATTTTG CTGTATCA	7B
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2234:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2234:	
45	TTTAGGCACA GACGGTAATA AGCTACAATT TTCATAAAAT CATCTCCTTn	50
	(2) INFORMATION FOR SEQ ID NO: 2235:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2235:	:
	ATCCTGGAAA ATCTGGTAAG ATATCTTGGA AATAACTAAT ACCAATTCCT AAAA	54
5	(2) INFORMATION FOR SEQ ID NO: 2236:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2236:	,
	GGGTGATGGT CATTGACAAA GTCAACTTGT GATAAGCCAT GGATATTTTT CGTT	54
	(2) INFORMATION FOR SEQ ID NO: 2237:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2237:	
	TTATTTACTT TAAATTTCTC AATCTACAGT GTAATCTTAT TTCTTATTAT	50
30	(2) INFORMATION FOR SEQ ID NO: 2238:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2238:	
	CCTTAATGGG TTTTGGGGGG GGGCCCCCC GGCCCAAAAC CTTTGGCCCA ATTGGTTCCT	60
	GGGTTAAGGA AAAA	74
45	(2) INFORMATION FOR SEQ ID NO: 2239:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCACCCATGG CGCTTGACAA AATATGGATG GAACATAACC ACACCGTCCA AGTTCACTGT	60
	TAGCACCGTG T	71
5	(2) INFORMATION FOR SEQ ID NO: 2240:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2240:	
	CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG	60
	TTTG	64
20	(2) INFORMATION FOR SEQ ID NO: 2241:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG	58
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242:	
	GACTCATCAC CGnTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA	50
45	(2) INFORMATION FOR SEQ ID NO: 2243:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAATTTGGAT TGGTTGGAAA TTTACAGTTA AAATTTAAAG GGTGGATGGA AAAATTTTAG	60
	GAACTTCTAA G	71
5	(2) INFORMATION FOR SEQ ID NO: 2244:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2244:	
	GGGGGCCCCT TGGGGGTTTG GGTTTTGGGG GGCCCCCCTT TTAAAAAnTT	50
	(2) INFORMATION FOR SEQ ID NO: 2245:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2245:	
	TTATAATTTT TGAAAATAGA AGAGGGAAGC CTTAAATTAC CAAATGGATT TA	52
30	(2) INFORMATION FOR SEQ ID NO: 2246:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2246:	
	ATTAGTTGAA AAGTACAATA TTCCGCAAGT TACCAATCGA TACAGGTATT ACAAG	55
45	(2) INFORMATION FOR SEQ ID NO: 2247:	
70	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(D) IDEOLIDEL. ELICOLE	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2247:	

(2) INFORMATION FOR SEQ ID NO: 2249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120		(2) INFORMATION FOR SEQ ID NO: 2246:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2248: GGGAAGGTAA AACTTCCTGC TITTTTTATA AGTATTCATA CTCTATTGCT ATATTAGTAG 60 AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG 107 (2) INFORMATION FOR SEQ ID NO: 2249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC 60 ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA 168 (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	5	(A) LENGTH: 107 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG (2) INFORMATION FOR SEQ ID NO: 2249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGT ACATACTGAG AACTGTAGTA CTTAGTGCAA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double	10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2248:	
(2) INFORMATION FOR SEQ ID NO: 2249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 26 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 27 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GGGAAGGTAA AACTTCCTGC TTTTTTTATA AGTATTCATA CTCTATTGCT ATATTAGTAG	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTARA TARCTATTCT TTARAAGTTA ARAACCAACC ACTAGTGGCC ATTGGGGATT ARAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION; SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG ARCTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG	107
(A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249: GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC 60 ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2249:	
GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC 60 ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA 168 (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(A) LENGTH: 168 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC 60 ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG 120 GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA 168 (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG 50 (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249:	
GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC	60
GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA (2) INFORMATION FOR SEQ ID NO: 2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG	120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA	168
(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2250:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250: TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	<i>35</i>	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG (2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40		
(2) INFORMATION FOR SEQ ID NO: 2251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG	50
(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2251:	
	50	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	GCAGAACATA CCACGTGTCG CTGATTACCA ATACAGTAGA TCAAGATGGA CTCGATTGC	59
	(2) INFORMATION FOR SEQ ID NO: 2252:	
5 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2252:	
15	GTTTGTGTTT TAATTTTAAG GGGAAGGGAT TTTTTTACCA AATGGGAATT TT	52
	(2) INFORMATION FOR SEQ ID NO: 2253:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2253:	
	AGTGTAATTA GAAAGGCAAG TACACCTGTT TAAAGTTTAT CTTCTAAGAT TTGTTTACTT	60
30	TAGAACTATA GCAGTTAATC	80
	(2) INFORMATION FOR SEQ ID NO: 2254:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2254:	
	GTAAATGACA GAGGAAATAT AACAATGATT AATAATGTTA CAGCATTTAC TGCAAATATC	60
45	TACTAT	66
	(2) INFORMATION FOR SEQ ID NO: 2255:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACATGTGTTA ACTCTTTGGC AATATATCCT GTTTCTTCTT CTAATTCACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2256:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2256:	
15	AATCTTTTAT AGGAAAGAAA GAAGAAGATG TTATCAGTTG CGATTATCGG CCCAGGCGCT	60
	GTCGGTACA	69
20	(2) INFORMATION FOR SEQ ID NO: 2257:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2257:	
30	TAGCGGGAGA TAGAAAAACC ATTCCGCATT AGCTTTGGTC AAGTTGGGAA TGGGTAAAAA	60
	AATA	64
35	(2) INFORMATION FOR SEQ ID NO: 2258:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs	• .
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2258:	
45	GGTTAAGGTA TGGCGAAATA TCTCCAACAA CACTTCAAAA GGTTCAAGAA AATAGAAGTC	60
	GACTGAACAA TGTCATTCAC ATGTGTGCGT CATGCACACC nTATGT	106
50	(2) INFORMATION FOR SEQ ID NO: 2259:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 79 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2259:	
	CGGAATAACT GACTATGTAT CATTTGATGT TATTAACATC AATATTTTTG GTTAAATGAT	60
5	ATGCTAGAAA TAAAGCATA	79
	(2) INFORMATION FOR SEQ ID NO: 2260:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2260:	
	GCTGGnTGTT ANTGGCAGAG CATGTGAGCT GGATAATCAG TTGGAGAGGC	50
20	(2) INFORMATION FOR SEQ ID NO: 2261:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2261:	
	nccattaatg accgagatta gtgagcatgc acaaattgtt atggtaggat	50
	(2) INFORMATION FOR SEQ ID NO: 2262:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2262:	
45	AATGAACCAC ATAATGACAA CTTGAATGAC AATATGAATA TGATGTCAAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2263:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CATTAGGTGC TTATATAAAT TACTTTGTGG TGGCTCCAAA ACTTCGGGTT AAAAC	5 5
5	(2) INFORMATION FOR SEQ ID NO: 2264:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
70		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2264:	
15	TTTCnTCCCC CCCCGGGGT TTTTTGGTCC CTTTTTTTT TTAAATTTCC	50
	(2) INFORMATION FOR SEQ ID NO: 2265:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5, 55, 55, 55, 55, 55, 55, 55, 55, 55,	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2265:	
	TCATTCATAG AGGTGTAAAG ACATAAGGGG AGCTTAACTG CGAGGACCTA CA	52
30	(2) INFORMATION FOR SEQ ID NO: 2266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2266:	
	AGATGATGCA ATAATGGTGC AGTATAGAAG TACTGAGCAA TGCAAATTTT AGACG	55
	(2) INFORMATION FOR SEQ ID NO: 2267:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2267:	
55	GTTCATCACA TTTATTACAT TCAGCGTTGG AATCAGTACT GGGTTATCAT G	51

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2268:	
	CTGTTGACAA CAAATTAAAA ATGACAACAT GTCGTAGTTA TAGTTAATTG ATTG	54
	(2) INFORMATION FOR SEQ ID NO: 2269:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2269:	
25	AACCAAAAAG AAAGCAAGGT CAAGGAAATT TCAGCGnGAC GTATCTTTAG TTTTGAATAA	60
	GCATATTAAT ATGGTGATAA TATGCAAGAN AACCTGTTTA TTCGATTCAA TGAAATTATA	120
	TTATTAATAT ACTTAATCAG TATCATTTGC TATTTTTATG ATTTTGTACA AAAAAGTCAT	180
30	AAGATTAGAA GTTTAGGCAT ATATTTATTG GGGATTGTTT GGGTTTTACA AACAATCTCT	240
	TTATCTATTT TTATTATACA AACTAGACAT ATTCCATTAG GGnCTATTTC AGATGTATTC	300
	TATACTITAA GT	312
35	(2) INFORMATION FOR SEQ ID NO: 2270:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2270:	
15	GTTGATGGAT TCTCTTGGTT TGGTGTAGTC ACAATTTCTG AACTGGCCCT TGTTTACG	58
50	(2) INFORMATION FOR SEQ ID NO: 2271:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	10, 000	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2271:	
5	CGTTCAGACG CTAAATCAGG CACCAGGTTG TACAATTGTC CTGGTTCTTC	50
Ū	(2) INFORMATION FOR SEQ ID NO: 2272:	
10 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(a) Totoboot. Timout	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2272:	
	CAGGTGTTGG TAAAACATTT GAGATGCTTT CAAATGCCAT TGAACTATTT CAAAGTAA	58
•	(2) INFORMATION FOR SEQ ID NO: 2273:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2273:	
30	TTATAAATTG GTGTAACAAT TTCATACACA TGATCATTCT TTGATTGAGG TAAAAATGAT	60
	TCTACTAAAC GTACACGTTT ATGCTTCTTA TATTCTTTCA TCAATAAATA TCTATGATTA	120
<i>35</i>	GCTAATGATA AATTTAGTAG AAGCTTGTTA TCTCCATAAA CTAAATTCAC GATATTAGGT	180
33	ATATTGAATT GTTCTTGATA TTTCAAAAAT TGTTGATCCC ATTCTTCATT TTTAGGTAAA	240
	GGTAATACCA TCTCGTTAAT TTTCCAATAT GCTGGTTTAA GAATGACATT TTTATATCTG	300
40	ATTCGTGGTG AATAACTAAA TGAATCAATA CTCACATCAT TCATAGGTTC AATGCATTTC	360
	ACAGATTCCA TTGAAATTTC TCGTAACAAT CGATAThAAT	400
	(2) INFORMATION FOR SEQ ID NO: 2274:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2274:	
<i>55</i>	GGGTACAAAT TTGTnGATGA TAGAAAAGTT CGTATCGCTA GAAAGTCTGG	50

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2275:	
	TGATTTACCA GTTGATTACG ACAAAGAAGA ATTTTCAAGA ATTGTTGAAG CATCAAAACG	60
	CATTA	65
15	(2) INFORMATION FOR SEQ ID NO: 2276:	
20 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) lorologi: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2276:	
	ATGGCGTTCC ACCAGCAGTC AATAATCCTG TTGGGATAAA TGCCAATACT GTCGA	55
	(2) INFORMATION FOR SEQ ID NO: 2277:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2277:	
40	TAATAAATCA CGTGCATTTA CGCTCACTAG CTTTCATCTC CTCATTTTTG CTTTTCAAAT	60
40	TTATTAAGTA TGAATA	76
	(2) INFORMATION FOR SEQ ID NO: 2278:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2278:	
<i>55</i>	GTGGCTTTGT CTGTGTTATT GTAGTTTTGT TTCGCTGCGT CCAGCTTTGC TGCTTTTCCC	60

	(2) INFORMATION FOR SEQ ID NO: 2279:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2279:	
	TTAAGTGCCA AAGTCCTTGG TAGCCAGAAT GAACCACCAA CCTCCATTTT TCCAAAAATG	60
15	GTCTTACCT	69
•	(2) INFORMATION FOR SEQ ID NO: 2280:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. •
25		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2280: GGATGGAATT GGGTTAAGAA TAAAAAAAGGT AATAATTGAG TTTATGATAA TAATAATAAT ATTGAGA	60 67
	(2) INFORMATION FOR SEQ ID NO: 2281:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2281:	
•	TTGTTACTTC GGCACGGATA AATCCACGTT CAAAATCAGT ATGAATGATA CCAGCACATT	60
45	GAGGTGCAGT CATACC	76
	(2) INFORMATION FOR SEQ ID NO: 2282:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AACCCAGAAG ACTTATTATT AGAATCTTAA TCCACAACAC AAAATAGTTT ACTATTCCTA	60
	AAAGCGGGAT TAAATCAATA ACAAACAGCA GTAAGATTAT TTCCTAGTCG AAATATCTTA	. 120
5	CTGCTGTACT TTATTTn	137
	(2) INFORMATION FOR SEQ ID NO: 2283:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2283:	
20	ACAAAGATTT ACTATITAAC TAATTTATAT GAAGAATAGC TTTCCCTAAT AA	52
20	(2) INFORMATION FOR SEQ ID NO: 2284:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2284:	
	ACTCCTGCAT ATCACAACTA GATTAAATAT ACATCAAACA GATATAGTAA A	51
	(2) INFORMATION FOR SEQ ID NO: 2285:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2285:	
45	CTAACATGTG TGAACGATAT GCAAATTCAA TATCTCATTC ACGCTTTGCA CTTTATTACT	60
45	ACAATCAACG TAACTAT	77
50	(2) INFORMATION FOR SEQ ID NO: 2286:	
-	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2286:	
5	AAACCTGTAT TTTTAATAAA CAATCGCTTG GACCTATTCA CTGCAGCTCT TCTGGGAC	58
	(2) INFORMATION FOR SEQ ID NO: 2287:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287:	
	AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGAnTA GAGTTGGCAG	60
	ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT	120
20	TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA	180
	TCATATAATT TTGAAGAATT AATA	204
25	(2) INFORMATION FOR SEQ ID NO: 2288:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288:	
35	GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2289:	•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		٠.
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289:	•
	TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG	53
50	(2) INFORMATION FOR SEQ ID NO: 2290:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2290:	
	TTGGAGGTCA ATGTTCGGCG TAATCTTCAA TGTTTCCGTA CACAATTGCT GCGGTTGACA	. 60
5	CACATACG	68
	(2) INFORMATION FOR SEQ ID NO: 2291:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2291:	
	TTCGACGAAT TAAAACAAAT CCTTTTATAT GTTGAAGTGT ATTCGAGATT AAA	53
20	(2) INFORMATION FOR SEQ ID NO: 2292:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2292:	
	ATCAATTGTC AACATCTAAT ATTCACTACC AATTATATCG CCACATGTTT TTTAGCAGTA	60
	ACA	. 63
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2293:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2293:	
	CGACTCAGGT CCATCAAGAG AGACACATTT CGACTACAGG TTATTACTTC TTTGA	55
	(2) INFORMATION FOR SEQ ID NO: 2294:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2294:	•
	AAATTTTGGT TAATTTTAAA ACCAAAAAAC CTTGGAAGGA AATGGCCCTT TTCCCAATTT	60
5	T	61
	(2) INFORMATION FOR SEQ ID NO: 2295:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2295:	
	AATCTTAAAA CCTATGGCGT CTATTACATT CCCAAAACCT ATTTTCAGNA ATGTTACCAA	60
20	TTAAACTTGC CGGGGTATGG ACCAGGGTAC CAGGCTAAAA ACTGGAAGAA AGGAAGGAAT	120
	TTTAGAAAAT AATTTATTAA CATGGACCAG GTAACTAA	158
	(2) INFORMATION FOR SEQ ID NO: 2296:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2296:	
<i>35</i>	TGTTCCAACG ATGAATGTTT GCATGCTTTG TTGCACTGAA ATTGATGAGT TGCTACTTGC	60
	AATCCTAG	68
	(2) INFORMATION FOR SEQ ID NO: 2297:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2297:	.*
50	GTAGGGATTT TTTTTAACCG GGATAGCCCA ACCAAAATTT AATTAATTTT GGGTTTTTGG	60
	ATTGAAGGAA TT	72

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2298:	
10		
	AAAAATTHTA CCAGGTGAAA AATTATTTTG GTAGGATTTA AATHTAATGG TTTAAATGGT	. 60
	GGTTTATTAC CTAATTTAAA AATGGTTAAA AGGGCCTTTA CCATTTTTAA AATTTAATCC	120
15	GCCTTTTGGG AGGGGGATTT TAGGGATGGT CCAGTTAGGA CCCCATTACC ACTGGAAACC	180
	AACTTAAAAT TTGACCAAAT TTCCTGGAAA AAA	213
	(2) INFORMATION FOR SEQ ID NO: 2299:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Toronogi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2299:	
30	TATTTTTAAA GGAGGGTAAT AATCTTAATT TAAGTTCATT ATTTTTACTT TCATTATAAA	60
	TATTTAATGT TACTTTCTTA TTTAGATAAC AATAAAAAA TATAATCTCT nAAAACCCAA	120
	TGAAACAGCT GCTCCAAACA ATTAGTTCTT CTAATTGAA	159
3 5	(2) INFORMATION FOR SEQ ID NO: 2300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2300:	
45	ACAAGGTCAT TCGGATTTGA CTTTGTTTCA ATTGTTAAAT TTTGCTCCAT CAATTGTCTA	60
	ATTCT	65
	(2) INFORMATION FOR SEQ ID NO: 2301:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2301:	
5	TTTATTCTTA TTTAAAAACC CAnTGAAAGT ANTCTTTnCA TTANTAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2302:	
1 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2302:	
	GAGATATATG CATGAGCTCT ACGACTTCTT TAGGTTTCAT GGCGACTATC CTGGCAGGGA	60
20	TG	62
	(2) INFORMATION FOR SEQ ID NO: 2303:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2303:	
	ACCAATCCCG TTGTTTTGGT TTTTTAAAAA AAGGAAATTC CAAAAATCCC CCATTT	56
35	(2) INFORMATION FOR SEQ ID NO: 2304:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2304:	
45	TTTAAAACCC AACGGGTTTG GTTAAAATGG CCTGGGCTTT TCCAAAACTT GGC	53
	(2) INFORMATION FOR SEQ ID NO: 2305:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2305:	
	CGAACAGGTT GCCACTGTAA GATCTGGTGG CATTTAATGG CAATCGTATT TTATTTGGAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2306:	
. 10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2306:	
	CTTTATAATG GCGGCGCACT TGGCATCTCT GCATTCAGTT ACACGCGGTG GCAACACAAA	60
	ATTTAGGGAA TTCT	74
20 ·	(2) INFORMATION FOR SEQ ID NO: 2307:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2307: TGTCCATGCA CAGCTTTATT GGAATTTACC TTTTTACAGG CAACCGCTAA AGA	53
	(2) INFORMATION FOR SEQ ID NO: 2308:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2308:	
	TAAATGATTA TGGGAATATC CAAAATTATC GAGATCTAAT ATGAAGTGAC TGCACACATA	60
45	TCAGCTCTGA ATGAAT	76
	(2) INFORMATION FOR SEQ ID NO: 2309:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2309:	
	TCCTCAAAAT GTGAGTTAAT AGTCGAGTGG AAGCTGTGAC TTGAGCGACG ATACATCATC	60
5	ANACTATCAA TAATGTTTGC ACATCACTTT TACTACTATC ATTTGATGTA TAAATAC	117
	(2) INFORMATION FOR SEQ ID NO: 2310:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2310:	
	AAACTCATAT CGCTTCCGAT AACCAACCCT GCTGCTGTTG GTACAAATTG TC	52
20	(2) INFORMATION FOR SEQ ID NO: 2311:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2311: AACACTGGAG TCCTAATGTC ATCAAACATC TACCTATAAG ACCTTATATA ATCGTC	56
	(2) INFORMATION FOR SEQ ID NO: 2312:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2312:	
	GATAACATCA TAGGCCATAA CTTCCATTTA GGCCATCAGT TATAGCATGC GGACGACATA	60
45	CTGTGCCATA TG	72
	(2) INFORMATION FOR SEQ ID NO: 2313:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2313:	
	CATCTAATGG GAACGTGTCG ATCCTAGTCA GTATAGTCAT CGGCAGGTAC GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2314:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2314:	
	TAAACTGAAA TITAATTITC GGATGGTATT GTTATTAAGA AATAGACATA ATTTGTGCTG	60
	GATA	64
20	(2) INFORMATION FOR SEQ ID NO: 2315:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2315: CTAGTTTAAA TTTCTTAAAC TTCTACATCA GTAAAAGGCC GCTCTGGGAC CATACAATC	59
	(2) INFORMATION FOR SEQ ID NO: 2316:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2316:	-
	GCATAGTAAC TTAATTGATA GGAGATGAAA ATCCGCAAAG TCATTGGAAG GATT	54
45	(2) INFORMATION FOR SEQ ID NO: 2317:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GTATATGCTG GAAAGATAAA GTATGGANAA TGCATGGCGA ACATTTTGTA AGCAGAATGA	60
	GCTATAAGCG TTGAATGGGT TTGAACGTAA ACAATCGAAC AATGATATGT CAGACATACT	120
5	TGCTTTAGAG CACATTTAGA GAGCGACATG	150
	(2) INFORMATION FOR SEQ ID NO: 2318:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2318:	
	AAATCATCGA TGTTAAATAA TTTAATGACA AGGATTAATG AAAGACGGAT TG	52
20 .	(2) INFORMATION FOR SEQ ID NO: 2319:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2319:	
30	TTAAGGAAAC CTTGGCCAAG GTTAAGGAAA ACCGGGGGTT CCAAGGTTTT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2320:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2320:	
	ATGAAGTTGA TTTAGGATGA AAATTAATCT TGGGATATTT AATACTTTGT	50
45	(2) INFORMATION FOR SEQ ID NO: 2321:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CTAACGCTAA GGGCGACGGA TGGTGGTNAT GTCAAAGAGA CAAATAGGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2322:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) ToPoLogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2322:	
15	CGTGGTGATT AATTTTTCGT CGCGTTTTGT TTCCTTTCCC CAGTCATGTT TTATCATTGT	60
	GGGCATCATT GCACCTGGGT TCCATATTAT GACGTCATTT TTTANAAT	108
	(2) INFORMATION FOR SEQ ID NO: 2323:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
25		
•	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2323:	
•	GTCACCGAAT TTCGATTTAT ATTATCACTC AATTTATTAT CTTGAAGCAC GCGTTAAATC	60
30	GTCTTTAAAT TGDAACAGTT GCTACTTTAT TGTCTTTACC ATTGATCTGA ATTTGATCCG	120
	CTTTAAGTCC ACTATCTTTT ACAACTTGCn CTACCTTTTG TTGAGTAATT GCTTGTTTAG	180
35	ATTGGAAATC TACGCGTGTA CCACTTGAAA AA	212
	(2) INFORMATION FOR SEQ ID NO: 2324:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2324:	
	TCATTTGTTT TTAATACGTT GTCAAAATTA CCAACAAATG ACAAATTAAA TTTTGCAATA	60
50	CATATCAAGG TGTTATTTT TTCCTATTTT AATTATGTAT AACGCATTAA AAGTGACGIn	.120
	AATATTCAAA GGA	133
•	(2) INFORMATION FOR SEQ ID NO: 2325:	

5	(A) LENGTH: 216 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2325:	
10	ATGAACGACC GTGGACAGAC AATATTTAAA GCATTTAAAA ACAGCGTTCC CAGAAAGACA	60
	ATATATAACC AATATTAACA AAAGCAATGC ACATTACTTC ACAAATGAAA TCAAAGCAAC	120
	ACACATATAC AATGCAATAA GCGGGCAACA ACAAACAGAT TTCAACACGC CTGTCATACA	180
15	GCAATATCGT TAACAAATGA CANCCGCCNT TTAGGC	216
	(2) INFORMATION FOR SEQ ID NO: 2326:	•
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2326:	
	TGACCATATG ATTGAGGAAG GTTTTATTGA TCCTAAGTAT CGTGCTCTTG CACCGTTATG	60
	CGACACTAAG GAATCATTAA TTGAATCAAT ATTAAATTT11 AAACCTCTGG GTACTCGTTC	120
30	ATACGATTAA TCATTCTAAG G	141
	(2) INFORMATION FOR SEQ ID NO: 2327:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2327:	
	TGAAACTGCA GCGTGGCCGA GTGGGGGTTG TGCCAGGTGA CCCCAGATGG GCGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2328:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GAAGCCAGCC TAATTGGATA CCACCGGAAG TAACTTTTGA CCAGGGCCGT CGCA	54
	(2) INFORMATION FOR SEQ ID NO: 2329:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2329:	
15	GTTCCCGGGT CCAGGCCGTT GTCTTGTGCC GGGGTGTTTG GTCCTTGGTT GTGT	54
	(2) INFORMATION FOR SEQ ID NO: 2330:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2330:	
	TATATTATAT ATTTAACTGC TGTGATGTAT TCTGAAAAAA TAGTAGTATT GCCTATAATC	60
	ATCTATGCCA TTGTGTTTGT AATAATTGGT ATCACTTATA TCTTTATAGG CGACAGCTAT	120
30	GATCAATTAA CAAATTTCAA TGTGATTTTG TATATGGGGA GTTTGTNTTA TGCATGGATG	180
•	GCTATTAGAA	190
	(2) INFORMATION FOR SEQ ID NO: 2331:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2331:	
45	TTTTCACCTC GTGTTTTAAA TTCAATTGAA TCTAAACTAA AAGTACCTTT AAGT	54
	(2) INFORMATION FOR SEQ ID NO: 2332:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2332:	•
_	TTCTAAAAAT ATTAACGAAT TATACAACTT TAAGAGTTTT TAGTATGTAA ATATTCTTTT	60
5	CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT	120
	TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT	180
10	ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG	240
	TAAATT	246
	(2) INFORMATION FOR SEQ ID NO: 2333:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333:	
	CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA	52
25	(2) INFORMATION FOR SEQ ID NO: 2334:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334:	
	AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT	60
	(2) INFORMATION FOR SEQ ID NO: 2335:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	
50	CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA	60
	AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG	120
	TTAAGACGTA AGCGACAAAA GCGAATCCAA TACAGTGTTA TTACAATnTT GGTATTGTTG	180

	(2) INFORMATION FOR SEQ ID NO: 2336:	
	(i) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2336:	
	CCTACAGTCC CAACACTGTC AGTACACTGC CGATACCCAA CCTCTGGCCG GTCCGGCA	58
	Committee database inclination ballinoan. Colorodo Colorodo.	
15	(2) INFORMATION FOR SEQ ID NO: 2337:	
	(4) CHOUTENOR ONADAGERTORIOS	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2337:	
25	ATATTTTTTTA TTTAATGGTT TTACTACTGC TACAACTATC ATAGGTGGCA	50
	AIAIIIIIMA IIIMAIGGII IIMCIMCIGC IMCAMCIMIC MIMGGIGGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2338:	
	// A CROWNING OWN DA CHERT CONT. CO.	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2338:	
	CTCCTGTAGA TTTAAAATCT CCTAAATAAC AAACGAATAA TCGGCCATCT TTATGTATTT	60
40	Plongling illustrict constitut temperature temperature	
40	TGATTGCTGC AGGATTCGCT TTGTGACTTA CAAAAGGTCG TTTGATTTCC TTCGTTTCAG	120
	GATTGATTTT GAAAATATTG CCTTCGAATA CATCCAATAA AAAGAGTTGT CCCTGCCGAT	180
	GAIIGAITTI GAAAATATIG CCITCGAATA CATCCAATAA AAAGAGITGI CCCTGCCGAT	100
	CAAAGTTCAA TCCTTCTAGT TGCAATCCTT TTTTGGAAAT TTCAAGCCAT GGTTCAGCTG	240
45		201
	TAATTGTTTG TAATTCACTT TCAGATATAA TTGGAACAGC ACTATTGGAC TTCCCGCnAT	300
	AAAATAATGG AGGGNAAANC TGGTGGGGAC ATCCATGAGC CATTCCTTTC CATTCCATTC	360
50	GGTTTTAACT AACCAATT	378
	(2) INFORMATION FOR SEQ ID NO: 2339:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
. 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2339:	
	ATGAAAATAA ACTGTGTCTC ChGATGTATA CGTCCCTTCA AGCAGACTTC	50
10	(2) INFORMATION FOR SEQ ID NO: 2340:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2340:	
20	TATCCATATG TGAAAAATGT CATATATGAG TCTAGTTTTG TATAAATGGA GACTCGAAC	59
	(2) INFORMATION FOR SEQ ID NO: 2341:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2341:	
	ATTGATAAAA TATGATTAAG CGTTGTTGCA AATGACATTT TCTCAAAAAG CGCTTCACTA	60
35	TCAATTGGTA CTTGTGTGTn AATTTCAGCC AGTCGCTTCG ATAAATATAG TTCATCTAAA	,120
	TIGTCATTAA TCTTATTACG TTGCCCAGCT GATAATGCAT CAATGTTTTC AACCACATTT	. 180
40	TCAACGCTT	189
40	(2) INFORMATION FOR SEQ ID NO: 2342:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2342:	
	ATCAATTAAA ACAAAGCATA CAACAATTTG TTGATGTTGA ATCTAAATCA ATTTTAGAAC	60
	AACAAATGAT TCATCAGCTT CAACAAATGG ATCGTTCTTA TGTAGAGATG ATTACAGAAT	120
EE	\cdot	

	(2) INFORMATION FOR SEQ ID NO: 2343:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2343:	
	CTTAACCCCC CTTTTTCCC AATTTTAATG GGGAAAAATT GTAATTAACC TGGGC	
		55
15	(2) INFORMATION FOR SEQ ID NO: 2344:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2344:	
25	GACAAATAAA CATGACCTGG ACAAAGAAGA ACAATAAACA AGCCTGGCAA	50
	(2) INFORMATION FOR SEQ ID NO: 2345:	
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2345:	
	GTATTGCGAT GATGCATACG GGTATTGTTC TGATTAAATA ATATTTCATA TTTAATGTTG	60
40	ATAAATGTTG AATAAACAAT CCGCAAAGnG CACTTGATGA TAGTGCTAAG A	111
-10	(2) INFORMATION FOR SEQ ID NO: 2346:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. •
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2346:	•
	GCAAACAGTT TCCGTGTCCG TTTTCCAATT AAGTTAAGGA ACCCAAAGAG A	51

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2347:	
10	TCGTAGGTGC CATAACACAC GTTACCTGGG ACTCATATGA AGTATTATGT CGAGACGACC	60
	(2) INFORMATION FOR SEQ ID NO: 2348:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2348:	
	GTTTTTAATA GGCTCTTTAC GTATCTAAAA ATAATTGCAT TATTGGTGTG CCTTGATGTA	60
25	ATTGAATTAA AGTACCGTTT GGTTGTAACG TTTCAGGTAT ATCATTTTCA ACNATAAC	118
	(2) INFORMATION FOR SEQ ID NO: 2349:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2349:	
	ATGACAGAAA GCAAAATCCC AATGTTGATA TACCGTTTTT GACACCACTT GATTATCATT	60
40	ATTTTTTCTT TAGCGATGGA TTTTATATTA CGATTTCAAT TCTTACTATC GTTGCATTAT	120
	TGTCATTCAA ACTGTATCGT TTTTACTmTT ATAGACTTTT CGCAATAGTA ACATGG	176
	(2) INFORMATION FOR SEQ ID NO: 2350:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2350:	

2213

. 55

	CTACGACTGA CATTAACTGT GCAGATGTAC CTGGATTCTA TTTTTTCAAG AACAAATTGT	120
	AATAATTGAT AGTTATATGG TGCAATGTCA CCTTCATCCA TTGAGCGCTC AATAATTTCA	180
5	GCTGCnAGAG CGGCnTGACT G	201
	(2) INFORMATION FOR SEQ ID NO: 2351:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2351:	
	ATCGCTATAA CCTATCAGTG ATAATATTTG ATTGCATGGT GCACCATTTG ANATTTCACT	60
20	TAGAATGGTG GTACCTAATT GCTTATTTTT ATATGTCATT TGAAGATTTA AAAATTAAAA	120
	ACTITGATAC AGAGTGAAAC CATATTTCAA CAAATTAC	158
25	(2) INFORMATION FOR SEQ ID NO: 2352:	*
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2352:	
35	TCGTAATCAA AACATTTTGA ACAGGATTAT AGTAAGGGAA TTTTTGGATT TTAACTTGTG	60
•	TTTGTTCATT TTTTAATAAG AGTCGAGCTA AGTCTTGCAA CATCATTACT TGCTTGGCAT	120
40	CTAACTGTTC GTCATTAAAT TTTATGAAAC GATCACTCAT GTTTTATCCC TCTTTAAAAG	180
4 0 .	TTTAGTTCTA CAGCATTATA TATTGCTTGT TGTTCACGTT CATCTTCCAA TTTATCAATA	240
	ATTGTACGTT TAATTGCACG TTCAACTGGC ATTACAGTGA TTAAATCACA CAAGTCTAAT	300
45	AATGCACGGG ATACTAGCGG CTTCTTCAGA AATTTGTCCC TGCTTAGACA TAGTACGTAA	360
•	ATCTTCATTG AAACTTNAAT AATTTGGTTC GATTTGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 2353:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2353:	
	ATTAATGGGG TTAAATAACA TTTTGACTGC GAAAGATTTA TTCTTTTCAG GTAAATCATT	60
5	GATAGATGTA TATAGTCAAT TTGCTGGATT AGCTGAAATG ATAAATGTnT TTGCGAATGC	120
	ACCATTT	121
10	(2) INFORMATION FOR SEQ ID NO: 2354:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2354:	
20	ATCTCGCTGT TTTTATGAAA GAAAACTACA TTTTCGAGAG AATAAAAAGA TTTTTCTGAA	- 60
	ATTTAATCTA TCAATTACAT TGATTTACTA ATATAATTAG AAAGTAAATT TTATTTGATC	120
25	AAAGTAAATG GGGGAAGTAC TGTGATAGAA AATAAGAAAA CAGTTGAAGA TACATATTCA	180
	ACAGGCGCAA TTGTTGATTC AATATCATCT TCAGTnCAAA TGn	223
	(2) INFORMATION FOR SEQ ID NO: 2355:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2355:	
40	ACACTTGTTC AAACACTCAC AATGATAAAG CATATTATCA GTATTGTAGT GTGTGGAAAA	60
40	TGACAGCCAT CTAAGGAGAA AAATGATGAA AAGAATATTG GTAGTATTTT TAATGTTAGC	120
	AATTATATTG GCAGGTTGTT CTAATAAAGG TGAAAAGTAT CAAAAAGATA TTGATAAAGT	180
45	GTACAAAGAA CAGAATCAAA TGAATAAAAT TGCCTCGAAA GTACAAAACA CTATTAAAAC	240
	AGACATTAAA CAAGAAGACA GTAATACACA TGTTTATAAA GATGGTAAAG TCATTGTTAT	300
	TGGTATTCAA TTATATAAAG nTCGTGAAAA AATGTATTTA TTTCGCATAT GAANTAAAAG	360
50	GTGGTTAAGG CCAGAGGATT TAATCAGNGG AAANTAGACC	400
٠.	(2) INFORMATION FOR SEQ ID NO: 2356:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: Timear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2356:	
	AATITACTTT GTGCCACAAG GTTATCAATG TCTTTTGAAC CACCAAACAT TCTAGCGATT	60
10	AAGTGACCTC CATCATCGTC TGGTAATCTA TCCTCTCCCC CCACAGTTCT TTGTGCATGG	120
	CTATTACGAT CCCCATCTTT TAGAGAGAGA TTGTCTACAT AAACTTCTTT TATGCGACCT	180
	TTATGATCGG TTCGATATAT GTGACCAGTA GGTGTTGTGT ATTCAATATT CGCCTTTAGT	240
15	TTCTTAGGTn CTAAGTCTTG GCATAGTGTT CTCCGAATTC NAACCTTGGT GTTAGTTTGG	300
	TGATTCAACA TACTTTTGAT GGAATTCATT THCATGGGCT ACTT	344
	(2) INFORMATION FOR SEQ ID NO: 2357:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	•
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2357:	
30	TATGCGCCCC TGCTTGATCT TTCATTTGCG TCCACTCAAT TAGTTGTTTG CGC	53
	(2) INFORMATION FOR SEQ ID NO: 2358:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2358:	
	ATTTTTCAC CTTCTGAAAT TGATAAATCT AGGTTATCGA ATATAGTCTT ATCGGCATAA	60
45	GATTTATTTA AATGTTCAAT TTTATATGCT TCCATACCCA TCTTCCTTCT TCTGTTGAAA	120
	TCTCTACGTA CTTAAATCAG TTCTATACAT TATACACCTT TTTGAAATCA AAAGAAATCG	180
	ATACCGTTAA GTGTCATAAT TTAATATATT GTTGCTTCAA CTATAAATAA AACTTGTTAA	240
50	GGCTTTGATG ACTATGCTAA TGATCTTTAT AATATACCTT TTTATCAACA CATATAATGT	300
	AAAACATAAT ATAMAAGAAC ATAATAAAAA CCCGGATTGA TATTTTATCA ATCCGAGTTC	360
<i>55</i>	GTGTTTAGAT ATTATTTTT AGAGTTTGCT TTAGGTCCTG	400
J		

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2359:	
	TTAATGTCGC CATTTTTGT TAGGTAGACG TATAAATCTG GACCTTTTGA TGATTTGTAG	60
	TTAGTAAGCA TTAATTTACC ATTTTTAATC TCAGCTTTAC CTTCAACAGT TTCACCGTTT	120
15	TTAGAACTGA nTGTACCTGT TAGGTGTTTT GTTT	154
	(2) INFORMATION FOR SEQ ID NO: 2360:	* ***
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2360:	
	ATATGTCTTG TGATTTTCA GGTGTAAGTT AGTATGCAAG TGATTATGAT TGATAGT	57
30	(2) INFORMATION FOR SEQ ID NO: 2361:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2361:	
40	GGCATCAAAT TAGTAGCGAC TCACACGTGA TGCATCCTGT GTTTTGGATC TCATTTCT	58
	(2) INFORMATION FOR SEQ ID NO: 2362:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2362:	•
55	TGTTATTATC GNAGAGGCTT TTCGCTTTGG AATAAGGTAT TACGTGAATG	50
J-J		

<i>5</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2363:	
	CTCTTCTGGT CCCTGACATA CATAGGAGAA ATAGCTCCAT GTACAACGTG	50
	(2) INFORMATION FOR SEQ ID NO: 2364:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2364:	
25	ATTGCCAATG TCGTTAGTTC GTGAGGCTGT TGGTGAAAGT TGTGTTTGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2365:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2365:	
	CCATGATTTA AATCATTGAT TAATGGTGCT TGTTCTACAT CTGTGTAAAA TTCATACAAT	60
40	TCTTTAGCAT CGTCGAATAG TTCATCACGA CGTTGGnTAA ATTCTTCTTC T	111
	(2) INFORMATION FOR SEQ ID NO: 2366:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2366:	
	TAATGCTGAG CGTGTTACTT TAGTTGGATC AACGATACCT TCTTCTAACA TATTAACCCA	60
	CTCnTTTGTA GCAGCGTTAA AACCAACACC CGGCTCTGCG TTTTTCAAAC GTTCTACAAT	120

	(2) INFORMATION FOR SEQ ID NO: 2367:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2367:	
•	CCTGATTGCA AAGTACAGCA AGCACTACAG ACGCCTAANC ACTNACACTA	50
15	(2) INFORMATION FOR SEQ ID NO: 2368:	•
. 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2368:	
25	AAAATGGTAT TGCAATTAGT AATGTTACAA CAAGTGTTGT AATAGCTGCA TAAAT	55
	(2) INFORMATION FOR SEQ ID NO: 2369:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2369:	
	TATAGGATGA AAATCCTGCC AAAAGATTAA GGGGTGGCCT AATGAACCAT G	51
40	(2) INFORMATION FOR SEQ ID NO: 2370:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CECHENGE DECCRIPTION, CEC. TO VO. 2270	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2370:	
	TTGCTCGAGG TGGTAAATAC GCAAAGTTTA TTTGGTTGTG CTAAGAGAGA AA	52
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 2371:	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2371:	
10	TAATTTGAAT AAGGTGGAAG TGATAAACAG TGCTTTGCGA ATCTAGAGTC ATTAATCAAA	60
	ACCCTA	66
	(2) INFORMATION FOR SEQ ID NO: 2372:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2372:	
25	AGACAGGTAC TGTCCTACGG TATGGAGCAG AAGCGGGAAA GCTGCCCAGA GCCAACTGTA	. 60
•	GACAA	65
	(2) INFORMATION FOR SEQ ID NO: 2373:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2373:	
	TTGCAGTGAC GGCTTATAAT CATTCCAAGC GAACAATTAG ACATTCCATA TAAAATATAC	60
40	AGATGGCTTT CAGTAGAGTA GTGGATTCGG ATTCACGAAC TATACTGGAA GCTTTTTATT	, 120
	ATAAATGAAG AGAAGTTATA TTTTTAGCAT GTATAGTTGA ATACTGGGTT AAAATACCAT	180
45	ATTAATAATG AAGTAAAGGT ATGAGTGATT ATGAAAGTGT TTTGAATGAA	240
	TTGGTGATGC TTTTAATTGA AAAGATTAAC AGGATTCAAC TTGGTAAATT GTATTAAATG	300
	TGAGAAAATA AAAGTATATT CATTGAGAGA TATATGAGTC AATGATCGTT TTAAACAAGA	360
50	TAAGTGTATT TTAATATGTA AAAGTTATGT AATAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 2374:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2374:	
	CCTATCATGC CTCTCTCA CTGAATCCTT TAGATCCCCT TCCCTCCTC TCCCCCCTCT	60
10	TTTCCCCTCC	70
	(2) INFORMATION FOR SEQ ID NO: 2375:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2375:	
	CCAAGTCAGA GCAGCAGTTC AGTTCGTCAG CTGTTCAGTT CAGAGCTGTC	50
	(2) INFORMATION FOR SEQ ID NO: 2376:	30
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2376:	
	GTTGGTGAAG CTGTTGCCGA nGGAGAAGCG GGTATGGATC CTGACGGTGn	50
	(2) INFORMATION FOR SEQ ID NO: 2377:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2377:	
•	AATTGCAGGA CAGGTCAAAG GCAAATGCAC GTATTCAGGT CATGCTCATG TGCATGTTG	59
50	(2) INFORMATION FOR SEQ ID NO: 2378:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2378:	
5	TTTATCATCG TATAAATCTA TATCTAATTG ATTAAACTTC GGGTGCTTAA CTAACTCTCT	60
	CANTACACTT ACACCAGCAG TTCCCATGCC TATTATTGCT ACACGCATAT ATCATCCATC	120
	CTTTGTAAT TCAAAATATT ATATTTAAAC TATTACCTAT AATTATAGCA ATTTGGTATT	180
10	TCCAATAAAA TTTATNAAGG TAAGCNATTA TTTCACTTTC ACAACCATT	229
	(2) INFORMATION FOR SEQ ID NO: 2379:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		٠
20.	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2379:	
	AGTTTTTGT TTGACGTATT TAATTTACTA TTTGCTTGAT TGATATTTTT AGACATTAAA	60
25	TAGTGTTCTC CTAATCAATT TATTCTTCTT TATTTCAGCA TTATTCGCAC TGACAT	116
	(2) INFORMATION FOR SEQ ID NO: 2380:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(will energy an angulation one in No. 2200	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2380:	60
	CAAATCTTAG CGGATGATTG GCATGTATAT TCTGCTGGTA TCGAANCACG CGGTGTTAAT	120
40	CCCAAAGCGA TAGAAGCTAT GAACAGAAGT CGGCGTTGAT ATGTCGAATC GTACGTCAGA	136
	TTTAATCGAT AATAAT	136
	(2) INFORMATION FOR SEQ ID NO: 2381:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2381:	

	TTAATTGATA GCTTTTATCT GTAGGAAAAG CTATTTTAAA GATTTCTAGT GTATCTATAA	120
	CTTTTTTGGG ACGATATTGA ATATTACAAT CTTTAAATGC CTTTTTAATA AAATTCAAAT	180
5	CAAAATCTAC ATTATGAGCT ACAAAAATGC AATCTTTTAT CTTATCGTAG ATTTCTTGTG	240
	CAACTTGATT AAAATATGGC GCTTGTTGTA GCATATTTTC TTCAATGGAT GTTAACGCTT	300
10	GAATGAACGG CGGAATCTCT AAATTTGTTC TAATCATAGA ATGATATGTA TCAATAATTT	360
	GGTTATTGCG CACAAACGTT ATACCAATTT GAATGATATC	400
•	(2) INFORMATION FOR SEQ ID NO: 2382:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2382:	
	TATTTTGTTA ATAAAGTTAA TATATGTTTG TTGTACAGAT AGTTCAGGAT ACA	53
25	(2) INFORMATION FOR SEQ ID NO: 2383:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2383:	
	CCCGAGCTTG CCCTCTTCC CCCCTCTTCG CCTCCAGACG AAGTGCCCTT CTGTCCTTG	59
	(2) INFORMATION FOR SEQ ID NO: 2384:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2384:	
	AGCCAACATC CCHGATGGTA CTTGCATTAA TGCATAACCT AGAGAGAAGA ATGATGCCAA	60
50	TAAACCAAAT TGTGGTTTTG TCATCCCTAA ATCATCCATC ATTTGCTTAG	110
	(2) INFORMATION FOR SEQ ID NO: 2385:	
	· ·	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2385:	
10	TGAAAGTTCT TTTANGCATC AATTITAANA CTACGAGCGG ACNCTAATAT	50
	(2) INFORMATION FOR SEQ ID NO: 2386:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2386:	,
	GGCAATTTAT TGACACAATG CTTGAGCNAT TGATAGCAGG ACAAGAAAGA ATACTTGATG	60
25	AGTTAATACC AAAAATGGAT GCGACTGAAA AATTAACGCT TTATTTAACT AGTCATTATA	120
	AACAGATAGA TTATGAATTT TTGTATCTCC TTTCAATGGA TAAATTGTTT GGAAATAAAA	180
	GAAATAGATT AACATTAATT GATTTAGAAA ACATATTGGG AGTAGGAAGA GTAAAAATTA	240
30	GTnGT	245
	(2) INFORMATION FOR SEQ ID NO: 2387:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2387:	
	CACAAAATTC GAAATCGTCA TCGGTGATAT GTTTAATACT TGGGAAAATA TAAAACGCGC	60
45	CTTCAGGTTG AGCGGTAATC TCAAAACCTA ATTTAGTTAA TTCAGATACT AAATAATTTC	120
	TTCGTTCnAC ATAAGCTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 2388:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2388:	
	ATATAACATT GTAGGGCCTA ATAATTTATT TTATGTCTCA GACTCATACA ATGGTTATTT	60
5	AACTTATTTA CCACAAATTG AGCACTAAGA CTCACTATTA TCGATTCTTC TATTGAACAn	120
	(2) INFORMATION FOR SEQ ID NO: 2389:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2389:	
	TCTAAATCCA GCATGATCTA CATCAAAGCT GAATTCACCT TTTTCATCGA CTTGCAAATC	. 60
20	AGGGAATTCT TGACCTTCAC CTAGT	85
	(2) INFORMATION FOR SEQ ID NO: 2390:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2390:	
•	GGTGTTTATA AAGCAGGGGC TGAGCCTCGG TCAGGACTGG ATACACAGGC AGTACGGGTG	60
35 .	A	61
	(2) INFORMATION FOR SEQ ID NO: 2391:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2391:	
	TAAAGTAACC ACITTAGATG ACATTTTAGA AGTTATGGGC CGAATGCAAA C	51
50	(2) INFORMATION FOR SEQ ID NO: 2392:	
٠	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2392:	
5	GGTCGGAnTC CCGGGTCGAC CCACGCGTCC GCATCAACCT AGNAGAAGCN	50
	(2) INFORMATION FOR SEQ ID NO: 2393:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2393:	
	ATTTCCAAAC GAATTGAAAA ACGGACGTAA ATTCTTAACT AAAGGCGATA AATGT	55
20	(2) INFORMATION FOR SEQ ID NO: 2394:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2394:	
	ATAGGTTGCT ACTATTTATA TCGACTCATT TTCACTTACA AATATGACAT TGTCTCTAGA	60
	ACACMAAAAT TAATTTGCGT CATATCTGCT ACAGTTTTGA GTGTGTTATC AAGTGTATTT	120
35	(2) INFORMATION FOR SEQ ID NO: 2395:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2395:	
45	TGGACCATAG TAAAGCATTA CGGTCGGTTT ATTATTTTCT AAGGAAGTAT GTTTATATAA	60
	ATCTATGCTC ATTTGTTTTT TAGCGTCTGT TTGACCTATT ATTTTAGAAC CAGCCATCTG	120
50	CTCTTTATAA AAATTTATTA CATCATCTTT TTTTAATGTT GTATATTCAT AGTTTATTTC	180
	TATTATNTCA GAATCGTGAA AACTATTTAG TGATTGANAT ACTCTTTTTG GAGGATTCTG	240
	AATATAGATT TTCTTAATAT T	261

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2396:	
10	GTTTTGAATA TAGGGGCTTT TATCACTCTC CGAAGTCTnT TCTAAGTTAG ATTTGGAAAA	60
,	TAACACTTTT TTAGTTTCAT TCAAGCGAGT CGAGTGACTC CAGA	104
15	(2) INFORMATION FOR SEQ ID NO: 2397:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(b) Torobodi. Tincar	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397:	
25	GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT	54
	(2) INFORMATION FOR SEQ ID NO: 2398:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398:	
	GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA	60
40	TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT	120
	TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA	180
_	GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT	235
45	(2) INFORMATION FOR SEQ ID NO: 2399:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTTGATGCAC TTATTTGTGT AATGACATCT TTACAGTCTT TTCCTTCCTC CATCATTTTA	. 60
	ATAATTCCAT TTAGTTGCCC TTGTATTCTA TTAATACGAT TAATCATTTT n	111
5	(2) INFORMATION FOR SEQ ID NO: 2400:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2400:	
	AAATGCTGGC TGAGTTTTGG GCCACCCGCA AAGGCACTGG ACCGGTGCGA AACC	54
	(2) INFORMATION FOR SEQ ID NO: 2401:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2401:	
	AACCACTCAT CACTACTAAA ATGATACTTA AAAACAAAGT CTTAATACAC TTTTTCATAA	60
30	TATCAACTTC TTTCTATATT TAATACATTA ATTATACATC TTTmTmAAAT AAAAATATGT	120
	GTAAAATTTT AAAACTTATT TAATTGATGT TTTAATAATG TATTATAGAA ATTATTGACA	180
35	TATGATTAAA AACCCTTAGG ATAGT	205
	(2) INFORMATION FOR SEQ ID NO: 2402:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2402:	
	AGATAATCAT AGAGAAAGTC CACAGTCGGT AGAGGTGGTA GCTGAAAACA ACATACTATT	60
50	AATTATGAAG TGCTTTGTAA CTTGTCGAGA CGTTTGCCGC GAATCTATCA TGATGGTGAT	120
<i>.</i>	CAACGTTTTG TnACAAATGA	140
	(2) INFORMATION FOR SEQ ID NO: 2403:	

(A) LENGTH: 58 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2403:	
10	ATTTAACCAC TCCTCCAATG ATAAGATTGA AAGGCAAGAT GACCTTCCAA TCTTATTT	58
	(2) INFORMATION FOR SEQ ID NO: 2404:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2404:	
	CAGCTTCTAC AATACGGCGT GCTATAGCAA GCATTAATGT AAATCCTAAT TCTGCAGTTG	60
25	T	61
	(2) INFORMATION FOR SEQ ID NO: 2405:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2405:	
	AATAATCATT TTAATACGGT CTTCAGGAAT TGAAGTGTCT ACAGGTACAT ATCCACATCC	60
40	TGCTTTAATG GGCACCAATC ATCCCAACAA TCATATATGG TGACATGTGA CCGANTAAAA	120
40	TCATCGGGTT TCTnACTACC TTGTAATCGA TGTGGCTAAT TTACTAGACT CATCCATTAA	180
	CTGTTGATAA GTTAATTCCA TCAGTTGTGT GTCTAAC	217
45	(2) INFORMATION FOR SEQ ID NO: 2406:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2406:	

	GTAGTATCCA ACGTATTTCG GATTGCATCG AGTTGATTTT TATTATTTTC TTCAATGCTA	120
	TCAAGCGCAN CTGTATTACG TCTTACTTTA GGTTTTATTT GCTCTATTGC CTTGATTGTT	180
5	TGATHTCTAA CATCAGTAAC AGCAGCATCT TGATTTGTAT TGTCTATT	228
	(2) INFORMATION FOR SEQ ID NO: 2407:	
10'	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2407:	
	CCTTTCGTCT CGCGCGTTTC GGTGATGACG GTGAAAACCT CTGACACATG CAGCTCCCGG	60
20	AGACGGTCAC AGCTTGTCTG TAAAGCGGAT GCCGGGNAGC AGACAGCGAT	110
	(2) INFORMATION FOR SEQ ID NO: 2408:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2408:	
	GGAGACCCCA AAAATTTTGT CGTTGAAGAT GCCTTTTTTT AAGCGTTATT TGGCTATATC	60
35	AGTITCTAAC TGT	73
35	(2) INFORMATION FOR SEQ ID NO: 2409:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2409:	
	ARATCATTAG AGAGGAATAG TTCCCTTTGT TACGCCAAAG ATTCGATATT GAC	53
50	(2) INFORMATION FOR SEQ ID NO: 2410:	
<i>30</i> ((i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2410:	
	CCATATGATT GTATAGGATC CATGACGTCT CCACTGACCC CTGACTCTAG TATC	54
5	(2) INFORMATION FOR SEQ ID NO: 2411:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2411:	
	GTTCCTCTTC AATTGTTATA TGTATATCAC AAAAATTATT TCATTATTTT ACCATTATTA	60
٠	TTTTACAAAT ATTATCCCAA GAATACAATT CAAGAAATGA TTAACTTTAC TTTAGAATTG	120
20	TACCTTATTA CATTATTTAT GAAAGTACTC TCTCAATTAT AACNAAAAAG AAGGTGTTCA	180
٠	ATACATHCAT ATTTAGTCTT ATAT	204
	(2) INFORMATION FOR SEQ ID NO: 2412:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2412:	
35	CAGTGGCGCA GAAACATAAC GCTCAGGGAA GCACAGCACC TCATTATGCC AAAGCT	56
	(2) INFORMATION FOR SEQ ID NO: 2413:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2413:	
	TCGCTGGCGG GTCCCGCGCG CCTAGCGTGC TCATGTGCGG TGTTCTAGGT GTTGGGGTTG	60
	CAGTCA	66
50	(2) INFORMATION FOR SEQ ID NO: 2414:	

. 5	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2414:	
10	GGATAGAAAT GGGAATCCAC CCATCGGTGG GGGTACCAGG CTCTTCATAT GGCCTTGTGG	60
	ACTTC	65
	(2) INFORMATION FOR SEQ ID NO: 2415:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2415:	
	TTAAATAGAT AGAATAGAAT TAAAGAGACG ATGATAGGTG CTGCTATCGT CTTAAAAACG	60
25	ATGATAAAAG GATCAAAAAC ATATGATACT TTTTCGAAAA TAAAAATAAC AATACCCAAC	120
	AATACTAGCG CTATTAATGA GAAGACTAAA TCATTCCCAC CAACAAACTT CATATACCGT	180
30	GATTCGGTAA ATTTTmnAAA ATTCTTTCTT ATATTCTTTT CATTTCATT CAATTATAGA	240
	TTCACCACCA CTTAAAATAT TCATAAG	267
	(2) INFORMATION FOR SEQ ID NO: 2416:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2416:	
45	TTAAACAAAT GAATATAGTA GTTCCATTAT CCTCACTTTT AATCGTTTAT	50
	(2) INFORMATION FOR SEQ ID NO: 2417:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTTGCTGGGA GTTGCATTAA GAAAATATAC ACATTTACTT GACATTCAAC TTGATAAAAA	60
	ATTAGTTATT GCCATATGTT GCATCACATT TATAGGGATT TTAATATTTT ATGTACGCCT	120
5	AATTAAAAA TCATCTTTAA ATATTTATAA TACTAAAAAT AAAAGGTCAA AAATnTT	. 177
	(2) INFORMATION FOR SEQ ID NO: 2418:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2418:	
	AAAATGAAGC GGTCGCAAAA TATAATGACG TGAAAGCATT TTATACTCAT GGACATTTAT	. 60
20	ATCAAGTCAA TCGAACAAGA GATTTATTAG CTGAAAAAGG ACTTGAATTA GGTTGTTTGT	120
	TTGCATTTTA TGGACATACA CATGTGGCAA AATATGAGTA TATTAATGGT GTTCATGTTA	180
	TTAATCCTGG AAGTATATCT CAATCTAGAA GTTCAATGGA AGAAACATAT GCTGAAGTTA	240
25	TTATTGATGA TCAAACTTTA CATGGCACCA TCAATTTCAA AAATCGACAT CACGAAACAA	3 0.0
	TCAGTCATAC TACTTTTAA ATAGAANTAG CTATGGCTTT TTTTAGTTTA TAGACTGATT	360
	TAACTAGGAG GTCGTGTCAT CCAATGTTTG TTTAAAAGTA	400
30	(2) INFORMATION FOR SEQ ID NO: 2419:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2419:	
	AGGGTGCCGA GTTAACCAAG AAAGGCCGTT GGTTGCCCCG GGTATTTTCC CCC	- 53
	(2) INFORMATION FOR SEQ ID NO: 2420:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEO ID NO. 2420.	

	(2) INFORMATION FOR SEQ ID NO: 2421:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2421:	
	ACCAGAAGAC AATAAGTGTA ATGATGCCTG TTCTAATACA GAATCTTTAC TTTTTATTGC	60
15	CTTTTCAAGT CGTTGTTCCA CTTTCTTAAT TTCATTGTTC ATGTTTAACT TTGCCANGTT	120
	AATCACCTTT GGTATTATCT TTTTCTTTAT AG	152
	(2) INFORMATION FOR SEQ ID NO: 2422:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2422:	
30	GTACGTTTTC ATTAGTTGTT ATATTTCCAT CTTGATAATT TTTTAAATCT TTAAAATCAG	- 60
	CATACTGACT AAAAAATTTA AAATTTTCAA TTTTTTTTTT	120
	ATCCAAAAGA ACAATCTMAT TATTTTTTAG TTCAACACGA TATTTTTTCT CATTATGATT	180
35	TITGCTAATA TCATCATAAA CTTTATTTAC AAAATAATAA CCTGTTGCCT TTTTGGTATT	240
	TCTATTAAGA TATAACACCA TGCCTTCATC ATCTAATACT CCTGGTTTGT TACTTTTTGA	300
	AAAACCn	307
40	(2) INFORMATION FOR SEQ ID NO: 2423:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topologi: Timeal	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2423:	
	ATTGTGTTGT ATTTTAGACA AGACCTTCAA TTTTGGAGAT TTCACGATTT ACCACC	56
	(2) INFORMATION FOR SEQ ID NO: 2424:	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2424:	
10	AGTCCTTTGG ATCGTCAAGA TTTCACACAT TTACANTTAT TANCTCGTGA	50
	(2) INFORMATION FOR SEQ ID NO: 2425:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
00		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425:	
	ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT	. 60
25	CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT	120
	ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG	180
ı	CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA	240
30	AAGCTTTT	. 248
	(2) INFORMATION FOR SEQ ID NO: 2426:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:	
	CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC	53
45	(2) INFORMATION FOR SEQ ID NO: 2427:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2427:

٠ ,	TATCCACTAA AATGATTTGC GCGTATTGTA ATATTAATCG TTCTACTTTT TATGATTATT	120
	ACAGGGAGCA ATTTGATTTA TTGGATACCA TCAACTCNAA GCATAGGTGG AGG	173
5	(2) INFORMATION FOR SEQ ID NO: 2428:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Totoboot. Tilledi	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2428:	
,	TACTTATGTT TATGTCGCAA TAATTAATGT TCGAnTTAGT GGAATTGAAC	50
•	(2) INFORMATION FOR SEQ ID NO: 2429:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
•	<pre>(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2429:	
٠	AGTCATCATA TTATCAATAA TACGCCGCGT TAAATCTGAT AAATTCATAT AGTCTGTATC	60
30	TAACTCTG	68
	(2) INFORMATION FOR SEQ ID NO: 2430:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2430:	
	TGAATTGAAA ACGGTCGGTG AAGCGCTAAA AGGTAGACGT GAAAGGTTAG GAATGACTTT	. 60
45	AACAGAATTA GAGCAACGTA CTGGAATTAA ACGTGAAATG CTAGTGCATA TTGAAAATAA	120
	TGAATTCGAT CAACTACCGA ATAAAAATTA CAGCGAAGGA TTTATTAGAA AATATGCAAG	18,0
	CGTAGTAAAT ATTGAACCTA ACCAATTAAT TCAAGCTCAT CAAGATGAAA TTCCATCGAA	240
50	CCAAGCCGAA TGGGACGAAG TAATTACAGT TTTChATAAT AATAAAGACT TAGATTATAA	300
	GAGTAAATCC AAAGAGCCAA TACNATTATT AGTAATCATG GGNATTACAG TTTTAATAAC	360

•	(2) INFORMATION FOR SEQ ID NO: 2431:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2431:	
	TGACTTCGTC CAAGTACAAC TGCAGTCAGT ACCTACGAAA TCAAGATCAG CATGGAT	E 7
	(2) INFORMATION FOR SEQ ID NO: 2432:	57
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2432:	•
25	ATTCTTAATC GCATCATAAT TAATTAACGG ACGCATAACA AATCCGATAA TACTATTATC	60
• •	TTTCCAAGTC ACTGACACTC CAAATTGATT TGCTTCnTCT ATCCATATTT GCTCAATAGT	120
	ACCATCATTT TGAGTACACA CTTTTAATTC ATGTACATCA GACTGCCTTG TATAAGATTT	180
30	GAAAAGTTTC CTAAACTGCC AATAACTGnA CTCTCGCTTC AAATT	225
	(2) INFORMATION FOR SEQ ID NO: 2433:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2433:	
	CGGCCTGACG TTACATTTCT TCAACTTCAC GTCAAAATTG CTTCGCAATA ACCAGGA	57
45	(2) INFORMATION FOR SEQ ID NO: 2434:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTAAACGTGT CTTTAATGTG GAAGTTGAAA TATTAGTCCG TAAAAAAATG AAACTTAAAA	60
	AAAAATAATA TTTATATTTG TCGTACAAAG ATGAAAGCGA NAGA	104
<i>5</i> .	(2) INFORMATION FOR SEQ ID NO: 2435:	-
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2435:	•
	TTTGCTAATC GTTTCACGGA TTGTGGGGAT GGGTAAAGAC TTTGCTAGTG G	51
	(2) INFORMATION FOR SEQ ID NO: 2436:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2436:	•
	AAAnTTAATT TTTGGGGGGC CCTTTTTTAA CCGGAAAATC CAATCGGGGC TTTTAAGGAA	60
30	TGGTTTTGGT TAACAGGCTT TGGAATTTGG TTTGGCAAAA CAATCCTTGG TTTGGGGTTT	120
	CGGTCCGGAG GGTCCTAATT	140
35	(2) INFORMATION FOR SEQ ID NO: 2437:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2437:	
45	GAAGCGGAAC CACCGTTGTT TTTCTTTTCA GGTCCAATTG AATAAATGTT ATGAATAGAA	60
	TGGATAAAAA TATAATTATT TAAGTGTTAA AGTAAACCAA ATCATGATTT AAGATTATAA	120
,	GAAAGAAAA TTGACTAATG TTAAAACCAA CAATCATATG GGTTGTAACG TTTATACAAT	180
50	CATCGTAAAA CTCAATATGC TTAATTTATT CAAAATGTTC GTCAATAAGT ACAATGAAAA	240
	GGAGATTGAT TTTTGAATAA AAAATATCTT ATGATTGTAA TTATAATTTT AATATGATTC	300

	AAGATACGAT TTTGAGACCA TGTGAAGGGA TTAAATATAG	400
	(2) INFORMATION FOR SEQ ID NO: 2438:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2438:	
15	TCTGTTTTGA AAGTTGCAGT TTGGACAGCA CCCGATGATT AGGTGAGTCT TTTGGTTTA	59
	(2) INFORMATION FOR SEQ ID NO: 2439:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(b) TOPOLOGI: Timear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2439:	
	TTGGTnAAAC CGTTACAGTT GCAAGTTTTG AAGTGAGTTA TTTTTTGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2440:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2440:	
40	ATTAAAAATA AATTAAAngT TCCAGAACCA GTTAACCAGA ATATTTACGA	50
	(2) INFORMATION FOR SEQ ID NO: 2441:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 54 base pairs . (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
50		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2441:	
	TGCTGTTTTG GCGGTTTTTC TCCGTTTGGT TGAGTATGTG GTGTACCTTT TGTC	54

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2442:	
	GTTGTTGGGT GTGTGGTTTTT GGGTGTTGTG GGTTTGGGGT CTGGGTTCGT TGGTGG	56
	(2) INFORMATION FOR SEQ ID NO: 2443:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2443:	
	GAGACAAACT AGTCGTCCAG AACGGAATTT AAGTAATCAT AATAATTACG GAAGTGCACT	60
25	TTTGTTTTG ATTTATCATT GATGGAAATT AGAACAATTT ATCGAATGAT ATTAAAATTA	120
	CATAACATCA TGTTGAATGT GAAATTAGGA TTGAACATTA CCTGTnTATT TGAAAAACCT	180
20	TCAGTTTTTA AATCACTAGT ATCACAAATA AAGCGACTTA AATTCGATTC GTTAATAATA	240
30	GATAATGCAA ATTTARGTAG CCCT	264
	(2) INFORMATION FOR SEQ ID NO: 2444:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2444:	
	CCGTCTTTAG TACGTACGTT GTTTGCGGGG CTTGGGGTGC TTTCTGGGTG TTGGTCATTG	60
45	TATTGGG	67
	(2) INFORMATION FOR SEQ ID NO: 2445:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2445:	
	AGCTGCATTT CTCGTGCAGG CTATCAGCAT CGATATCTGT ACCATTTAGT GATCATGC	. 58
5	(2) INFORMATION FOR SEQ ID NO: 2446:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	•	
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446:	
	AACCAAAACA AACATTTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2447:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447:	
	CACAAATTAC ACCCATTGTT ANTACTAATA CTINCCINTT CATTTGTTTA	50
30	(2) INFORMATION FOR SEQ ID NO: 2448:	
35 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448:	
40	GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA	6.0
	ATGACACTTG AATCG	75
45	(2) INFORMATION FOR SEQ ID NO: 2449:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	GCAGCCTTCA AGTGTTTGCT ATTTGCTTTG GTGTCACAAG CCATTATCTA CGGTCCCGCA	60
5	ATTTAGCCCG C	71
	(2) INFORMATION FOR SEQ ID NO: 2450:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:	
	TGGCGTGAGG AAAAATATCA TGTATTGTTA CACAGTCAAC AGTCTTACCA AATGATAAGG	60
	AATGCTTTAA AAACGGATTT ATCACTTCAT CAAGTTCAAC AAATGATTGA TGTTGCTTTG	120
20	TTAATTGAAC CGGGTATAGG AAGTGTATGT AATGCTTTTG ATCATATGTG GGGATATTTA	180
	AAAAAATGTG CGAATGAAGA AGGAAAGACA ACAATCAAAA CTACTTAAAA GCTGATTTTA	240
	TTTAATGGnA AAAATCGACA CCCCAACTTT ATTAGATTTT TTAGCAGAAC TTGCCTAATA	300
25	AATATGGANG TCAATATTTA CTACAAAGCC GNGTTTTTAA ACCCCAAAAA G	351
	(2) INFORMATION FOR SEQ ID NO: 2451:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2451:	
	GTGTACCGCC TCGGCTGGCG TTCGCGGTGG GTGGTGCGGT CGGTGCGTGT CTGG	54
40	(2) INFORMATION FOR SEQ ID NO: 2452:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2452:	
	TGCCATTCCA ATGTTACCAT CGTCTTGGTA CTACTATATA CTGCGGCTAT	50
	(2) INFORMATION FOR SEQ ID NO: 2453:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2453:	
	AGACGTGTTT CCACGGTATG GGATAAATGA AGCACCGACT GATAAATCAA TATAGCCTCG	6(
10	TGTTTTTAGT TTACCCGAAC TATCCCTTGA TAATGATTGT GACATCTGCG GATAATATTT	
		120
	CATTITCTTA GATATCGTCG AAATATCACC GATTACTTGA AGTCCATCTG TCGTAAACAA	180
15	TTCAATTCTG CTTTGTTTGT TTTTACTTGG GGCGTATGTC ACTTCGGCAA TATATCGTCT	240
	AACTTCAGGT GTCATTTCAG ATAACGCCTT AATCATATCA TCTTCTTTTG TACCTTTGAA	300
	ACCATCCATG ACAGGTGCAT CATTAATTTT GACATCATTT GAACCTTTAA GCAATTTACC	360
20	ATTTTCTAAT AAAGGTAAAT ATTTACCTTT ATATTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 2454:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2454:	
	AGAAAGAAAT ACCATTTGGA GATAGAGACT CGTGTTATTT CTTAGCGATG GGAGATTTTT	60
	,	
<i>35</i> .	ATAATAAAGA AGATAGNAAG AAAATTATCA AAGGTTATGA AAATAATTAT GGTAGAGGTA	120
	TTAATATTCC TCGAGCACAT AGTATATATT TATATG	156
•	(2) INFORMATION FOR SEQ ID NO: 2455:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2455:	
	ACTTAGGTGA TATGAAATGT GGTCCGCGAC GATCGTCAGT AACAAAATAA CAGGCAGTCA	60
50	TTGGATTATG TTTAACG	77
		.,,
	(2) INFORMATION FOR SEQ ID NO: 2456:	

5	(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2456:	
0	AGTGAAATCG CTAAAGAAAA AGATGGAACC TCGGTATCTA ATACACAACT TCTTGAACGT	60
	TTTTA	65
	(2) INFORMATION FOR SEQ ID NO: 2457:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
0	(b) Torobodi. Timear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2457:	
5	TATCAATAAT TGCCACTTGC AATGACTGAT TAATTTGAGG TGCACATAAG CCAG	54
	(2) INFORMATION FOR SEQ ID NO: 2458:	
0 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
٠	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2458:	
	AATTTTATTT CGAGATTCTT CAATATAGAT GTTTCTTCAT TAATTTGATT CTCTAACTCT	60
,	TGCTTACTAC CTAATAGTTT ATCTAATTCA GCTTTAGCTT TTTCATTTTC TTTAATTATA	120
	TTAATTTCAT TATTTATGTT CGTnATCGTA TTATTTAGTT CGATAA	166
	(2) INFORMATION FOR SEQ ID NO: 2459:	
;	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
)	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2459:	
5 .	CCAATGATTA AGCAATACAA TCGTCACTAA AATTACACCG ATAATCTGAA TCATCGTCAT	60

	(2) INFORMATION FOR SEQ ID NO: 2460:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2460:	
	AAATCAAAAA AATGTATAAT GAAAAGAAAA AGAAATTTGG AAAAAATTGG GAAGACGCTC	60
15	AAAAAGCTGG AAAAGCTGTA GGTGAAGATT TGAGTGTNAA TGG	103
	(2) INFORMATION FOR SEQ ID NO: 2461:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2461:	
	TTTATATCAG AATAGAATAG TAAACTAAGG CATTTGGAGA ACTTATTCCA TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2462:	
3 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2462:	
10	CAGCAGCGAA TTTTTGACGT CCAGTGTAGA ATGGATGTGA ATCAGATGAA ATATCTAAAC	60
	GAATAACTGG GTATTCTTTT CCATCTTCCC ACTCCATCAT TTCTGAAGAN GTT	113
15	(2) INFORMATION FOR SEQ ID NO: 2463:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2463:	

5

•	CTAACATAAT TGTTAACACT AAAATATTTA CTACTTTTAG AACTGTGCGA TTAAATACAA	120
	TTGTCAGTAT TGTTATGACT AGGCTAACGA TACATAAAAT AAAGAAACCG TTAAAGACTA	180
5	AAATTAAGCG ATCGATTCCT TGTTGTAAAT CATTGATATT ACCCAAATTA ATAnTTAATT	240
	GGATGCATTT nCCAA	255
10	(2) INFORMATION FOR SEQ ID NO: 2464:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2464:	
20	TATGCGACAA TTCGAAACAT TTTATATGCA AAAGGTTATA CAACAGAGAA TGTTGATT	58
	(2) INFORMATION FOR SEQ ID NO: 2465:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2465:	
	TGAATTTCAT TACCACATAT CGGACATTGA TCTCCAATAT TTACAGCAGA TTTAATTTCA	60
35	CTTAT	65
	(2) INFORMATION FOR SEQ ID NO: 2466:	•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		_
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2466:	
	CGTGACCTTC AAAGACCGAA CGAGAGAGTT GAAGAGCATT TGCGAAGGCC A	51
50	(2) INFORMATION FOR SEQ ID NO: 2467:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2467:	
	AGTTTGTTAA GTTTTAGTTT ACTAACTTTT CCATTAGATA TTATTAATGA AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2468:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2468:	
	TTGTTGGTAA GGCACTTCTT AAATATCAAC AACGCGATGA TATTTTCATT GGTACAAAAG	60
	TAGGCAATCG TTTAAC	76
20	(2) INFORMATION FOR SEQ ID NO: 2469:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2469: CTTCTATAAT AAAACCATCT GCAATTAAGT CTTCAATAGA CGATGGATTT CTATTATGTA	60
	TCAATGCATA C	71
35	(2) INFORMATION FOR SEQ ID NO: 2470:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2470:	
45	CTTCGTCATT GTATTCGAGC GCCTGTATAG CTTGCTCAAA TGATGCATAA AT	52
	(2) INFORMATION FOR SEQ ID NO: 2471:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2471:	
	AGAGGTTATG TTGATGTGCT TTATTTTCAT CAATGTCATT AACACAATCA TATTTCTTCT	60
5	GTTAATGCAC TGTATTATAT TCAAACGCGC TATCGACAAT TAATTTGn	108
	(2) INFORMATION FOR SEQ ID NO: 2472:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2472:	
	GTCCCCAGTT GATATAGGAT CACAGTTTAA TATACTTGGT GAGATAGTAA TACTATTATT	60
20	AATTCAAATA GGTGGTCTGG GTATCGTGAC CGTAACCCTA TTGACACTAG TATTTTTAAA	120
	TAGAAAGATA TCAATGAAAA ATAGATTCTT GATTATGGTT ACATGGAATA TTGACGAACC	180
25	TGGTGGTGTT ATTAAGCTAA TTAAACACTT GGCTATTTAT AGTTTAGTCA CTGAATTAAT	240
25	TGGTATGATT TGTTTGTGTT TATCTTTTAT ACCAAAATTT GGTATAGGCA AAGGTTTATT	300
	TTTAAGCTTA TTCACATCAG TATCAGCTTT TAATAATGCT GGGATTTGCC CTTTTTAAGA	360
30	ATAACTTAAT AGATTATTCT AGTGATCCAA TTGTCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2473:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:	
	CTTCAAATAC TAAATCAGCG TTGCTAAACA TACCGTATAC ATTTGATGGC GTTGATAACG	. 60
	CGTCCTGCGC TTCTGTTAAT AACTTTTCAG TTTCAGCATC TAANATATGA GGACGTTTTT	120
45	CATTAATCAA CTTCAAATCA AATGCGA	147
	(2) INFORMATION FOR SEQ ID NO: 2474:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:	
	CTTTAGGTGC TTGTGGTAAT TCTAATTCAC AAGATCAAGG TAACAAAACT GAACAAAAAA	. 60
5	CA	62
	(2) INFORMATION FOR SEQ ID NO: 2475:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:	
	CCTTTAAAAT CATCTAGAAT ATCTCTTGAG AAAAATTCGA AATCTACAGT	50
20	(2) INFORMATION FOR SEQ ID NO: 2476:	
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476:	
30	ATAGTGGTTA GTCAATGTAA TTAAATGAGA ATAGAATGGT GATTTCATCT TAGCTTGATA	60
	ATTAGCAGAA TCTTTAAAGA AAATTTTGTC TTnCAAGCCT AAGTTTACAA CGT	113
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2477:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
40 -	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477:	
45	CGTAACTAAC TCAATTTACT GAAAAAATCG CTTGCGATGC AATAGCATTT G	51
	(2) INFORMATION FOR SEQ ID NO: 2478:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:	
	TAGTTGCCGC TACGTTTATA CTCGTATTAA TGAAAAAAC TAGCAAAGAA TCTAAAAAAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2479: ·	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:	
15	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 24/9;	
	TCGGACATGA TGGTAAAACC GTATTGGGTA TTCGCACTGA CACCTTAAGG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2480:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) 1010b01. IIndi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480:	•
30	TTCCTAATTA AGGATTAAAA AGGGTTTCCT AATTAGATTA NAATTCCGGG ACCTGGATGG	60
	AAAAAAGTTT TTAACTTTTC CATCTGGTCC CGTTTTTTGA TTTTCGATAT AAAAAAAGCG	120
•	CAATTATCTC TAT	133
35	(2) INFORMATION FOR SEQ ID NO: 2481:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:	
45	AAATGTTTTG GAAGAACGTA AGANAAATCA ATCTGAAACA AATGCACGAT ATGAAGAAGA	60
	ACAAGAAAT TTAATGGAGC TTTTAGAAAA TATATCAAAT GAGATTTCTG AAGCTCAAGA	120
50	TACTTATAAG TCTCTGAAAA GTAAACAAAA AGAACTCAAT GCTGTCATTC GTGAACTTGA	180
	AGAACAACTA TATGTTTCAG ACGAAGCACA TGATGAAAAA TTGGAAGAAA TTAAAAACGA	240

	TACTATAGAA GAGAATGAGG CTAAAAAATC CAGACAGGTT CTCGTTAGTT GGAGTTTTGA	360
	GCCATTGAAA GTATTCnGGG GGCCAATTAA AACCGCCAAA	400
5	(2) INFORMATION FOR SEQ ID NO: 2482:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠.
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:	•
	AAGGTGCATA GTCAACAACA TTTACAGCAT CATTTGATTC TGAACTAACC GAAACATTAT	60
	ACTTACCG	68
20	(2) INFORMATION FOR SEQ ID NO: 2483:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483:	
	ATGAGCCNAC ACAGTGGTGA GGTAATCAAC GGTACAGTGG TTAGTGTGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2484:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:	
	CGGAACTCGT CGAATAACTT TTTAGATTCT TCGTTAGCTT TTACATTAGC GAATGCTTCT	60
45	nTGATTGCTT TGTATTCTTC GCTTTCTCTT AAAGCTTGTT CTAATTGATT TGCATAATCA	120
	TATAAATTTA CTGCCATGGT TATAGCACTC CTTGGTnGTG ATGTTTATTA AAACGTTCGA	180
50	TATTACTTTA CCACATCTCG CTTTTTTAGA CAA	213
<i></i>	(2) INFORMATION FOR SEQ ID NO: 2485:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs	•

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

		,
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:	
	GACCAAAATT ATCTTTAGCA CTTATAGGTA TCTTTTAAT ACTTTGTGAG TTTTTCTATG	60
10	GCATTCCTTT TTTAGGTGCA ACGTTTATTT TAAGTTTTGG ATGGCAGCCT TTACTCTTTA	120
70	ATGCATTACT TTATCTAATT CTTACTATTA TATTATTAGT GAATAGACAA AATGCGATTA	180
	GACCTATAGC GATTATTCCA ATATTTGGTA TAGTAGGTAG TITITTAGCT ATTATCCCCT	240
15	TCTTAGGAAT TTTGATTCAT TGGATTTTAT TTTTCCTAAT GATTCCAnTT GTCCTAGTTG	300
	GATTATCAGC GCCAACCTAT ATACCCAATA AAAATGCTCG TGnCnTTTTA CACACAATAC	360
	AAAGATGGAC CTAGAG	376
20	(2) INFORMATION FOR SEQ ID NO: 2486:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
.*		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2486:	51
	TTGACCTTGA CGGAAACTTT TTTCCAAGTT CTAAAAGTGG GCCAAAATCT T	21
	(2) INFORMATION FOR SEQ ID NO: 2487:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:	
	GAATTTTGGC ATACACATAC ACTTTAAAAG ATATTATTGA AATTACAGGT GTAACTAAAA	60
45	GAACTTTACA TTATTACGAT GAAATAGGAT TATTAGTTCC AGn	103
	(2) INFORMATION FOR SEQ ID NO: 2488:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488:	
•	AATTACATTA GCACCAATCC ACACATCATT TTTAATTGTT GTACGGCTAG GTTGGTCATT	60
5	AAAGTCTATA AACGTTTnCT TTAAGTTAAA TGGATTATTA TTTAGA	106
	(2) INFORMATION FOR SEQ ID NO: 2489:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:	
	TGAATTTGCT TGAGTCGTGC TGCTGATAAC AATAAAATTG CACATGGATA AAGAATGACG	60
20	c	61
	(2) INFORMATION FOR SEQ ID NO: 2490:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:	
	GCTCGTATGA TACAAATTCA TAATCTGAAA CTTCTGTCGT TTGTCGAACA TGTGGTAACC	60
35	AATTCTTCAA GATGCTGTAT ATTTCTGCGT AATTTTCGTC ATTCCTGAAT AACCTCAACT	120
	TTAAAATGTC ACCTTGTTTG ATATAACGCA TTAAAAAATA TTGATCTATA TCTCCCTTAT	180
	CTTTAAGATG TTTTACAAAT GGATACAAAT TGTCGATGAT AAATGTATCT TGCGATGGCT	240
40	TATCGATATG AATATGTAAT GCAAACCAGT CTTTGTCATA TTCAATATCT GTATTTTAT	300
	ATTTTGGAAT TTCGATTTCG GGTCCTCGAT AAGATGATTT TTTATAAATT GGTGTAACAA	360
	TTTCATACAC ATGATCATTC TTTGATTGAG GGAAAAATGA	400
45	(2) INFORMATION FOR SEQ ID NO: 2491:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	GACTGTTTTA TCGCAACTAT TTACACCTAT ATTATCGTTA GTAGGACATC TCGTCGG	57
	(2) INFORMATION FOR SEQ ID NO: 2492:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:	
15	CATTGAACTT GCTTTTGACG TACACCAGTA ATCAATGCCA TAATACGATC CGG	53
	(2) INFORMATION FOR SEQ ID NO: 2493:	
20 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493:	
	AATACAACTA ACATACACTT ACCCATGTCC GAAGTCChTG TTGAGGAATG	50
30	(2) INFORMATION FOR SEQ ID NO: 2494:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:	
40	GCTGTTTAGC TTGCTCAAAT GATGCATAAA TATCTGATGC AACTATCATA TCAGCTAGTT	60
	CATCA	65
	(2) INFORMATION FOR SEQ ID NO: 2495:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:	•

	ATTAAGCTTT CTAAATCATT GATGTTAGGA GCTAATGTGC TCGATAAGCA GAGTAAAGAA	120
	GAATTGCTTA AACAAGCTAA ACATATAACA GGTTTAGAAA ATCCTAATAG TCCTACACAG	180
5	TTATMGGCTT GGTTAAAGGA TGAACAAGGA TTAGATATAC CTAATTTACA AAAGAAAACG	240
	GTTCAGGAGT ACTTAAAAGA AGCAACAGGA AAAGCTANAA AAATGCTAGA AATTAGATNG	300
10	CAAATGTCTA AAACCAGTGT GA	322
•	(2) INFORMATION FOR SEQ ID NO: 2496:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:	
	ATCAGTGTTA ATTCGCACGG AATTTCCTTC CATTAAACTA ATCCGATCAT ATAATGGAT	59
25	(2) INFORMATION FOR SEQ ID NO: 2497: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:	
<i>35</i>	CTAATTAAGC CAAAAGGGGA AGGGTCCACC AACCCTTGGT TTCCCCCCAT TGCCCGGAAA	60
	CCACCAGNAA GTTTAAAGCT TCCCTTTAAG CCGTCCGATG GGTAGTCCGA ACTTTACCGT	120
	TCCCGC	126
40	(2) INFORMATION FOR SEQ ID NO: 2498:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:	
	CACTTTGCGC CAGTTTTCAG TTGAGTGGCA TAGAGTCTGC TCATCAGTTC CTTGCTCC	58
	(2) INFORMATION FOR SEO ID NO: 2499:	

5	(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:	•
10	TCATGATGCA GACGCAACAG CATTTGGTTA TGAATATGGA CAAATACCAC AGATGCCGGT	60
	AGCATTTCAA TCAAGTAAAC CTTTAATAGA	90
	(2) INFORMATION FOR SEQ ID NO: 2500:	
<i>15</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:	
25	TGCTCAAAGT CGTGTAGACA GCCAACTAAT GCATTTTCAA GATCAGTGAC ATCTCCGACA	60
	CCAAAGAAAT CACCGAATAT TTTTGCATGT TCGATTTTAC CTCGTTTAAC ATCAAACTTA	120
	ATTTGTACAA ATCCTTTTTC AAATTTTTCC TCGCGTTCAA AGTTATATTT AGGGTTTCTA	180
30	CCATAATTCC ATTCCCAAGT TCTATATTTG TCGTTACTTA ACTTTTCAAT ATTnTCCCAA	240
	TCTTCATCCG TTAATTGATA TTCTTCnACT TCAGTTTCGC CAAAGATAGT TT	292
	(2) INFORMATION FOR SEQ ID NO: 2501:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:	
45	GGTGTGTGTA GAGGTCGAGA GTTGGGGGGG GAGTAACGTG GAAGTTGCCC GGACAGCA	58
,	(2) INFORMATION FOR SEQ ID NO: 2502:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	·	

	ATACGGGAGG TATCAGCACG TACGTGCAGT CGGTAATGGA TChAAATACG	50
	(2) INFORMATION FOR SEQ ID NO: 2503:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(C)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:	
15	ATCCCCACTC TTTTTTAAAT GATTTAACCA TATTTTATTT	60
	AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT	120
	CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAN ACCATTCAAA TTCATGAATG	180
20	GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC	240
	TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC	300
	GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC	360
25	ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA	400
	(2) INFORMATION FOR SEQ ID NO: 2504:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:	
	ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT	60
40	TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT	120
	CTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC	. 180
	ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC	240
45	TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG	300
	CAAAATAAGT CAAAATCGCC TTIMAAAATT GCATTTTCTA AATTMATTCA TAMTA	355
	(2) INFORMATION FOR SEQ ID NO: 2505:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 254 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:	
	CCGTTAGTTC CATACCATAT TTTTTTCTAT AAAATAATTT AACATCTAAT TGCCTTTCTA	60
5	ATTTTTCAAT AGGGGTAGAT ACAGTTGACT GTGAATAGTT AAGTAACTCT GATGCTTTAG	120
	TAAGGTTCTT TGTTTCACTA GTTACTAAAA ATGATTTTAA AATGTTTAAG TTCAAAGTAG	180
 10	TACCTCCTTT AGGGTTCCCT TTTATCGAAT CCTGAATTCT AAGAATTCTG ATTTAATAAT	240
	AATATATnAn ATAT	254
	(2) INFORMATION FOR SEQ ID NO: 2506:	
15 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:	•
	AACTCCACCG TGTAGTTGCG CTTCATCGCC TTGAGGATGC GATTGGCGCC GTGCTGCGCG	60
25	GCACGTGCAG ATAGTGCGAG CACTTGGGCA GATCGCGCAC CGCCTCCAGC AGGTCGTCGG	120
	TCATATCCTT GGGATAGTTC GTTACGALTT GGATCCGGTC GATGCCGTCG ACATCCGAGA	180
	TGCGGCACAG CAGGTCGGAC AGTCGCGTTG nCCGCTGGCA GTGTCGTAGT GGTAATGTTT	240
30	CACGGTTTTG ACCTAGCAGC GTTCACCT	268
	(2) INFORMATION FOR SEQ ID NO: 2507:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:	
•	AAAAGTGGCT AATATCATCA GCAGAATGTA TAACATAATC GAATTGCAAC CAGCGATTAT	60
45	ACCTT	66
	(2) INFORMATION FOR SEQ ID NO: 2508:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:	
	ACCTCCGCTT CAAATGTCAT TGATAGACAT TTAAAGCGGA GGCATGTACA TGT	53
. 5	(2) INFORMATION FOR SEQ ID NO: 2509:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:	
	ACCCTATGAN AGATGAAGTN ATTAACCAAA AACCACGTGT TGTAATATTA	50
	(2) INFORMATION FOR SEQ ID NO: 2510:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:	
	TTAACCTATT ATATTAATTT TAGTATCAAT TCTTTCTCCA GTTCCTGCGT CATTTTT	57
30	(2) INFORMATION FOR SEQ ID NO: 2511:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:	
	ACGTGTTCAT AACCCATAAA GGCGAATATG GTAACACCGA ACATCATGAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2512:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>50</i> .		

	GTANAGCGGT CCGCGCTTAA AGCGCTTGCT AACTTCGAAC AATGAATCTG CGGAACATCT	60
•	TGCGAATCCA CGAGATGATC TCATATGACG GGCAGCGAGG T	101
5	(2) INFORMATION FOR SEQ ID NO: 2513:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:	
15	GGGTAATGTA ATAGTATTCA TCTACATCAT CTTGATCATC GTAATGCTGA TTGTACCCTT	60
	CTAAATC	67
20	(2) INFORMATION FOR SEQ ID NO: 2514:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
	() PROVINCE PROGRESSIVE GROUPS TO NO. OF A	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514: CCCGTCGTTT TCGTGnTTTT CGCGGCGTGT CTCCTGTTCG CGCCTCTACT	50
_	(2) INFORMATION FOR SEQ ID NO: 2515:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:	
	AAGAAAATAT CTCTTGAATA CTGATCGATT GCCATCGAAA AACACTGTTA AATCAAGTTG	.60
45	CCCAGTCCAT TGTTGTTCAT CCATTATGAT AATCCTTTGA GTAAAGTGTC GCGTTCAATC	120
•	CAATCGATAA CTTCATCCAA ACCTTCGTCG GTTTTTAAGT TAGTAAAAGT AAATGGACGT	.180
50	TTACCACGAA ATACTTTAGT ATCTTCAGCC ATTTGTTCTA ATGATGCACC TACATANGGA	240
	GCTAAATCAG TnTTGTTAAT TACAAAGACA ATCTG	275
	(2) INFORMATION FOR SEQ ID NO: 2516:	•

5	(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:	
10	CTGCACCACC AATAACGTAA ATACTGTATA TACTAGTAAT CGCTAATACA CCGATATTA	59
	(2) INFORMATION FOR SEQ ID NO: 2517:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:	
	TCTGCTACTA CGTATACGAT AGAATGGATT TCTTTTTGAA CCTAAACGTG TTAAACGAAT	60
	TTTAACTGCC ATTTATAAAA TCTCCTTTAA GTCATGTTTT AATTTTTATT TTCTACANG	119
25	(2) INFORMATION FOR SEQ ID NO: 2518:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:	,
	ATTTCCTTTT AAGTTTTTAA AAATCCAAAA TCCTTGTGGT AGGGCCATGA AAGGGTTGGG (2) INFORMATION FOR SEQ ID NO: 2519:	60
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Topobogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:	
	ATAGAAGTGA AGCACGTAGA TTGAAACGAT GGTTAAATAA CGAGAGACAT TTAGAAAACA	60
50	ATAAAAATGA GGAATAATCA ATGATACATG GAATTGGTGT AGATTTAATC GAAATCGATC	120
	GAATACAAGC GTTATATAGT AAGCAACCAA AATTGGTTGA GCGGATTTTA ACTAAAAATG	180

	GGTTTGCTAC AAAAGAAGCG TCAGTAAAGC ATTAGGCCCC GGCCTnnGGA AACA	294
5	(2) INFORMATION FOR SEQ ID NO: 2520:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Topobodi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:	
15	TTTTAGGCCG AAGAMGTAGT AATTTCCGGT CCTTTAAGGG GCGGGTGGTT AACCATGGCA	60
	ATTAATCCCA GGGATGACCT TACCTAATAA CCACCTAATA ATTACCCGGA CCAAAGGTGG	120
	AAATAATCCC TCCGGTCCTT CCCGG	145
20	(2) INFORMATION FOR SEQ ID NO: 2521:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid	٠
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:	
	TTTTAGTCAC CAAAATTCTC GCATTTAACT GATACGAATG TGCAATAACT AAAAATCGAT	60
	CTAATAATTG CGTTGAAAAA TTTGGCTCGA CAGCACTCAT TACAATTACN AGTGTATCTA	120
35	TATTACTTAC AGGTGGTCTT TTCAACTCAT TTTCCCGCTC AAACACTTG	169
	(2) INFORMATION FOR SEQ ID NO: 2522:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:	
	ATCCAGCCTT TCAACAAATA AATCTGAAAT TCGATGTTCT AAAATTTCTG CTTCTTGATG	60
	TACTTCTTCC CAATTATATT TCAATATT	88
50	(2) INFORMATION FOR SEQ ID NO: 2523:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGI: Tinear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2523:	
	CAGTAACATC AATCTGTCCT GTAAGCTTGT GGTACTCCGA TACAACCATA AGTCAACGCA	.6
10	CCACCAAAAA CGCCTTGGAG CCGTTCTACT TATTAGTCCA AGTTTAGACA TTGAAATACC	12
	AACAACTTTG CANTCCATAG TATCTGAAAA TGTAGACATT GCCTGCAATA AATTTAACNC	18
	ATCATTTTA TTATGTGGCA TTACTGCTAA TTTAACGTAT TCTGGGTT	22
15	(2) INFORMATION FOR SEQ ID NO: 2524:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:	
25	CTCATCCATA GCGCTGGTAT TAGTATAGGT GTCAAACCAT TAGCGTATAT CATATCTTCT	6
• ,	GGATGTDCTC ACATATTCAT AGATGCACAT TTTACTTCTC TCGTACCTTA GTACTGGGA	11:
30	(2) INFORMATION FOR SEQ ID NO: 2525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
33		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:	•
40	TACCAATATT AAATTTGAAC ATTATAGTTT GACCATCATA ATCTATCTTC TCTATTTCAT	· 6
	TATAACTAAT ACTTCTATAA TAAAATTGGC CATTCATATC TACATTCATA ATTAATCTTT	12
	CATTTGTTGC TATAAATGCC CCTTCAAATT CATTCTCACC TTGAACTTGA TACTCAATTA	1,81
45	TTCCTAGCAC TGACGGACCC TTTTTTTCAG TTGGAAATAA ATCATTTGGA TTCACATTAT	241
	CTAAAATCAT AATATCCCTC CCACTTAAAA CTATAAACTA TTCTTCATAG GTATATGAAA	301
. •	TACAAGTGAT TAACTATTNA TNATNAAGCT TAACTTGTAT TCCCTTTTCA AGATAAT	35
50	(2) INFORMATION FOR SEQ ID NO: 2526:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:	
	CACGCGTCCG GCCACCTGGA CATGGCCGAC CTAGAAGCCA AGCTGCAnGA GGCCCAGAAG	60
10	CATCGGCTGC GCCTGGGTGG CCACTGATGG GGCCTTTTCC ATGGATGGCG ACATCGCACC	120
	CCTGCAGGAG ATCTGCTGCC TCGCCTCTAG ATATGGTGCC CTGGTCTTCA TGGATGAATG	180
	CCATGCCACT GGCTTCCTGG GGCCCACAGN ACGGGGCACA GATGAGCTGC TGGGTGTGAT	240
15 ·	GGACCAGGTC ACCATCATCA A	261
	(2) INFORMATION FOR SEQ ID NO: 2527:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:	
30	CTnTAGAGGA TATGAGTTCC TCATCATAAG AATTTCTGGA TCCTTAATAG ATCTCTTGCT	60
30	ATATATATG TAATAGAAAC ATCTTTTAAG GATCCAGAAA TTCTTAGA	108
	(2) INFORMATION FOR SEQ ID NO: 2528:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 -		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:	
	TTTTAAAATA CTTGGTAGAA GTTGGAATGG ATTAATCATT AATTATCTCT CAAGATGTAA	60
45	TGACTGTTCA GCACACTTTT CCGATATGAA AAGAGATTTG AANACAATA	109
	(2) INFORMATION FOR SEQ ID NO: 2529:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GATTAAATTT GTTATACCTG GCTTGTTGTC ACGATCAAAT TTAATAATAC	CATCTGAATC	60
	AGTTACTGCG CTTTTAATTT TTTTAGCTGC AACATTCGGC TCGTCTAATA	ATGAAATnGA	120
.5	GTTTTTAGCA TTATCATCAC TCTTACTCAT	•	150
	(2) INFORMATION FOR SEQ ID NO: 2530:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:		
	TTCTTTTTGG CCAGTGGCAG GAAGTACGGT CTTATTTGGT GTTATGTTAA	GAAGGTATTC	60
20	CCATTTATTT ATCGTTAAAT ATGNATATAG TATAGTAATT TTAATTTGTT	GCATCATAAT	120
	ACTAGGT		127
	(2) INFORMATION FOR SEQ ID NO: 2531:	•	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 122 base pairs(B) TYPE: nucleic acid		
	<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	· .	
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:		
<i>35</i>	CACATAATGA TTCGAATTAT TGTTTTAATT AAACCTTTTT CACATATGTA	TAAATTTTAn	60
	AGAGCGCATG CGTGAATATT TTCATTTGAT TCAAAGGCAA AAGATAGCCT	TATACTCTTT	120
	TC	,	122
40	(2) INFORMATION FOR SEQ ID NO: 2532:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs		
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:		
50	AAATAATAGA GCAATTGGCA CATGTAAGAA TGCAAATTGA CTATGGCATC	CAGTATTTTG	60
	GTCACAAATG GGTTGTATAT GAGCATGTTG AAAAATAAGT CTTATGnTAA	ACACTTAGTA	120

	(2) INFORMATION FOR SEQ ID NO: 2533:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(D) TOPOLOGI: Tinear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2533:	
	GAGAGCGGCC GCGTGTAAGG AGAGCGGCGT TCGTTCGCGT GACGCGAGTG TGGTTCGCGA	60
15	GAAGNGGACC AGAGTTCCCG ATCGAGGCTG TTCGGGTAAA T	103
	(2) INFORMATION FOR SEQ ID NO: 2534:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2534:	
	TTGCTCATTA AAGATTATCC CAATCAATAT CATCTATATT TGTTGTACCA CTATTATCTT	60
	TTTCTCTTC TCTTACTTTG TnCATTGTAC CAGTAGATTC AAGATATATT GT	112
30	(2) INFORMATION FOR SEQ ID NO: 2535:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2535:	
	ATAACGAATC CAAAAATATA GAGAATGACA GTGAAACTTA AATAGGACTC T	51
	(2) INFORMATION FOR SEQ ID NO: 2536:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2536:	

	(2) INFORMATION FOR SEQ ID NO: 2537:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:	
	GGATGTACCA CCAGCATAAT AAACAACTTC AAATGGATTG ATAAAGAAGA nACCAGCAGA	60
15	GATAGGTAAT TCATTACCAT GTTCTTCTTG TAGACGTTTA CCTTCTTCAA TCTTTTGCTC	120
	ATTTGCATCA AGTTGTTGTT GTAAGTTATC TCGCTTGT	158
	(2) INFORMATION FOR SEQ ID NO: 2538:	7
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:	
30	TATATTCATT AAATCCACAA AGCGGTCCCG TATAAACATG GGTTTCCATT	50
	(2) INFORMATION FOR SEQ ID NO: 2539:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 103 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:	ř.,
	AAAGTATACA TATCACTCAA CTAATCAATA ATCATACTTA CCTTCAACAA ATTCTTTAAC	60
	ATGCAGTGTT ATCCCTTGAT AATATGGATA TTTMGTTAAT CTA	103
45	(2) INFORMATION FOR SEQ ID NO: 2540:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CAATCAATTT GTCTATCTGT TGAGTGGCAA CCTCTAATAA GCCTTTTATA TTGTCA	56
	(2) INFORMATION FOR SEQ ID NO: 2541:	
. 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2541:	
15	TGGAAATAAC GAAAGTATTA TTAATTTAAA GCATCTTTCT CCCAATACTT TAATGAGTGA	60
	TATTGTTTAT ATACCGTATA AAACACCTAT TTTDGAGGAA GCAGAGCGCA AGGGAAACCA	120
	TATTTA	126
20	(2) INFORMATION FOR SEQ ID NO: 2542:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2542: ATCAGTTTCT TCAAAAATAA CTGAAGTATC TGATGCTGAA AATTGGAATA GTTGATGGGT	60
	CGGGnTATTG ATTTTTATCT GATGTAAAAA TCCATAAGTG CCATAAGATG TATATAGTTT	120
35	CTTCATATGA AAGGTCCCCC TTATGTnTTT ATTTATTATA CGATGATAAA CTAGTCATTA	,180
	CCACTATTAA TAATTGATTA A	201
	(2) INFORMATION FOR SEQ ID NO: 2543:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2543:	
50	GAACTITATI ACAGGAATAG ATAAGCACAG TCGTGTTACA CAGACGCTAA ATGCGCGTTC	60
30	GTATG	65
	(2) INFORMATION FOR SEQ ID NO: 2544:	

5	(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:	
10	AGCTATTAAT GGCGCTATAA TTGATACAAT AGTTATGATT AATAAAAAA TAACCGATAA	60
	CATTGCAATT TTATMATGAA TAAATTTAGG AAATGCAATT TT	102
	(2) INFORMATION FOR SEQ ID NO: 2545:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:	
25	AATCTACATC CAGCATGATC NACATCANAG CNGGATTCAC CCTTACTTCA	50
25	(2) INFORMATION FOR SEQ ID NO: 2546:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:	
	AACCATTCAA CACACGACAC TAAAGTGCAG TACAATCCTA CAAAACGATT GTTTTTATCG	60
	GGTGGTCTAA CCATTGAATA AATAATGAAT AATGGTAANA	100
40	(2) INFORMATION FOR SEQ ID NO: 2547:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:	
	ATTGAAAATC TTTTATCATT TCATACGTGT GCATAATTAA AAAGGTGAAA CCTCTTATTT	60
	TGAGATTTCA CCTTTTTAT TGTTAATTTA AATTTAATTT	120

	(2) INFORMATION FOR SEQ ID NO: 2548:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:	
	AAAGTGAAAA TTGGAGGTGT AATTTTGACT AGAACTTATA ATATTATTGG TATCCTTTCT	6
15 .	TGTCTTATAT CTTTTATTAT TATGGCGTTA CCAATHATTT GGTACACAGC TTCAGCATTA	120
	TGGTTCTTCC CAGGTGCAAT CA	143
	(2) INFORMATION FOR SEQ ID NO: 2549:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:	
	CCCAACCCTA CHAACGACAT TACACAATCA GTAACAGATC GGTATTAAGA CTGGATATCG	60
30	TGGCATCTGT TGAGTTAATA TCAACAGTCG TCCAGAACTC G	101
	(2) INFORMATION FOR SEQ ID NO: 2550:	,
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:	
	TGTAACCATG ATTTAGATGA CTAAACGTGC TTGCCAACAT GCTTCATCCA ATGCCGAATC	60
45	CTTTAGCTAC AT	72
	(2) INFORMATION FOR SEQ ID NO: 2551:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:	
	CAGTAAGAGG ACAAGGCTAT AAGGTGGAGA ATCATGTTTA AAACACTCTA TGCTAGAATT	60
5	GCGATTTATT CCATTACGGT TATTTTATTT AGTGCATTAA TAAGTTTTGT ATTAACAAAT	₹120
	GTTTACTATC ATTATAATTT AAAAGCATCT AATGACGCGA AAATCATGAA GACGCTTAAA	180
	GAAGCAAGAC AATATGAACA ATCAGCTAAA CCAACGCACA TTCAACAATA TTTCCAnACA	240
10	TTTAGGGTCA AATGGAATTA CCAAATAATG ACCATGGATC CATAAAGGTC nThAGACCTT	300
	TTT	303
	(2) INFORMATION FOR SEQ ID NO: 2552:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:	
25	TTTACTTTAG CCTTTATTGC ATTTGTAATT TATAGAACTG CGAACAGGTG ACTACTGTDA	60
	ATTTATGTGA TTAAAGTTTC AATGATATTT GATTTATTAG ACCATTGCAA AAGCGCAAGG	120
	TTCTCATGTG CTGCTACAGT TTGCGGTCTT	150
30 _.	(2) INFORMATION FOR SEQ ID NO: 2553:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553: GCACTCGTCA ATAAAGATGA AGCAGCATTT AATCAATATA CGGCAGAATA CAAAAATT	. 58
		2,0
	(2) INFORMATION FOR SEQ ID NO: 2554:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:	

	AAAATCGTTG AATAATCAAT CATAGCAGTA AGCTATGTDA TATATTTTTA AAAATTGA	118
,	(2) INFORMATION FOR SEQ ID NO: 2555:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:	
15	ACAACTTCAA AGAAATCATG TCACAAAAAA AGTATTTGAT TTTAATCATA nGTGGCGACA	60
,,,	ATCCGCATAC CAAAGCACAA CCTTTAGTCA ACCAATTCAG AT	102
	(2) INFORMATION FOR SEQ ID NO: 2556:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:	٠
٠.	AGATGCATTA GCAGCATTAG ACGTTAAACC AGTTGGTATT GCTGATGATG GTAAGAAAAA	60
30	ACGTATCATT AAACCAGTTA GAGAAAAAAT TGGGGATTAT ACTTCTGTAG GTACACGTAA	120
	ACAGCCAAAC TTAGAAGAAA TTAGTAAATT AAAACCGGAT TTAATTATCG CTGATAGCAG	180
3 5	TAGACATANA GGTATTAATA AAGAATTAAN CAAAATTGCA CCAACATTAT CATTAAAGAG	240
35	TT	242
	(2) INFORMATION FOR SEQ ID NO: 2557:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:	•
	TGCACTCATA ATCATCGGAA TATGTATAGA ATCAACTATC ACTTTGCCGT GTTTATCTGT	60
50	GTTAAATGTG TAACCATAAC AGTGTGTCCC ATTTGGATTA TGAATCTCAG AATAATCATC	120
	AAAAATATCC TGAATTTnCA AATTAATTTC ATTATAGCGG nAGCAATGTC TATAAAATTT	180

	TATTTCAA	248
	(2) INFORMATION FOR SEQ ID NO: 2558:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:	
15	TTTGGGTCGT GATTGAAAAA ATCTAAGGCT AATAAACCAT GTTGTTCTGC GCTTAATAAT	60
15	TGTTTGAGTA TACGGTTAAT AATTAACTCT GTATCATGAG GGTTGACGCG AAAGTCAGAG	120
	CGCATATAAG TCATATAATT CTCGAAGATT TCTCTATCAG TATTGCTTAA TCTTAATGAT	180
20	TTAACATTAT TITCTTTTGT TAATTGCGCA GTACTTTTCA TTGTTACTTA AGCGCTCCTT	240
	TAAAAATGTT TAATTCCAAA TTAAAATGGA AATGATTTTA TAGTATTAAT AAGGTCAATC	300
	ATATCATATT AAACGCATAA ATATAACGAT TAATATTGGA GAGGAAAATG AGGACACTTA	360
25	ATAAAGATGA ACATAATTAT ATCAAGCAAA TAGCTAATAT	400
,	(2) INFORMATION FOR SEQ ID NO: 2559:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:	
	AAGGGAAATT TAAAAGTATC ATTTGATTAT ATAGATTGGA TTAAATTAGG TTTTGGCCCA	60
	TCAGGAAAGG AAAACTACTA TATGTACAAA AAATTTGGTA TTTTACCAGA TATGGAATAT	120
40	GAAATGGAAG AAATTCGAGC AGTAGAGAAG TATGTTAAAG AGCAAGAGTA GCAGACATGT	180
•	TATAAAAGAC TGTGCAAAAT CACCCTCGTT TTACATTTGA TTCAAAGAAG AAGGTAAAAG	240
45	ATAAGANTAT TTGCAACTTA AAAAGTCAAT NAGCTTATCG GTATCCATAC ATCATGGATA	300
	AATGAGTHCA ACTAATTAAC AAATCACGAT ATA	333
	(2) INFORMATION FOR SEQ ID NO: 2560:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:	
	GTAAGACATT CACATTTATC ATTTCACCAC AATGGGTTTA CCAACCATGG TTTAACGAAT	. 60
5	CCAAAACITT GATGCTCGTA TGTCTCA	87
	(2) INFORMATION FOR SEQ ID NO: 2561:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:	
	TTGCATTTTG ACGTAAATGA TTAAACAAAT CGTGATTATC TCTTAATTTT CTAACCGCCT	60
20	TTTCAATTTC TAACGGCGTA ACTTCCTTTA GAACAATGCC AAATTTATAT TTnTCAT	117
	(2) INFORMATION FOR SEQ ID NO: 2562:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:	
	AAGTCAAACA AAATAAGCAA ACAGACTGGT CAGAAGATAA GTTGAATAAT ATAGCTTTGA	. 60
35	(2) INFORMATION FOR SEQ ID NO: 2563:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:	
45	AAGTGTTATT ATTGTGATCA TAAAGTGAAG TATTACCTTT TTTATTCGTA ACCCGATTCC	60
	ATGCGCCTTC AACATAAACT	80
	(2) INFORMATION FOR SEQ ID NO: 2564:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:	
	AGACATGGGC TTATCAGATA AAGTAAAAGC ATTACCTAAA GGGGGAGGCG GTAAGTCATT	60
10	ACCG	64
	(2) INFORMATION FOR SEQ ID NO: 2565:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2565:	
•	GTTTGTTTAT AGTACCCTGG ATTTTCTTTA TTTCCATCAT GTGAAACTGT GTCAGTGAAC	60
	GCTGAT	66
25	(2) INFORMATION FOR SEQ ID NO: 2566:	•
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2566:	
	TTAATTATTT GTGACGTATT ACACGCATTA CTTTAGAAAG TGATTCCCAA AGCGAATTAT	60
	CTTTACGATA AACTA	75
40	(2) INFORMATION FOR SEQ ID NO: 2567:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2567:	
50	ATATTATTAT ATTGCTTTTT TTCAGTTTGC CGTTGTTACT TTCATAACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2568:	

5	(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:	
10	TTTTAGGATT TGTAGTAGGT GAGCGACGTA TTNNGGATGC AATCCAGAGA ACAATAAATA	60
	TTGAGAGAGA GCAATTCATA ACGCAGTTGA AATACATGTG TTACGAATTG CTTTTATGTT	120
	AGTTTTTATC ACACAAGTTT TTTGATGCAA CCCCGTGATA GCGAAACTCA TATGTAGATA	180
15	ATACAGCTIT TTCAGCATCA TCTACATGAA TTCCAAAACA TCA	223
	(2) INFORMATION FOR SEQ ID NO: 2569:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:	
	AATAATGCCA TACAGTGAAG ACCATGCGCA TCAATCGATG TCTAGTGTGT ACTACGTC	58
30	(2) INFORMATION FOR SEQ ID NO: 2570: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:	
40	CGTTTCATTA GTTTTAAATG ATCCCCAATA CTTTTTGTAC CTTCACCAAC TATCGTTCCA	60
	ACACTATCTA CAGCTTTTTC TGTGGTATTT TTAAACAGCG TCTATTTAAT GTCTTATCCA	120
	ATTAGTTTTA TCTCTTAATC CAAATTTATT AGTATGAAAA GTCCAATTTT TAAGAATTGT	180
45 ·	CTAAACAGAT TCCGCAACAA AACCAGCTAN AAACCGTCCA TACTATTGGA ATNAAAACGC	240
	CAATGTTATA	250
	(2) INFORMATION FOR SEQ ID NO: 2571:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2571:	
	AGCTCCTTTC TTTCTAGTTA ATATCATTNA ATCTTGTTTT TCAGTGTCAA AATTACCTGT	60
5	AAAAACAACA TTTTTATCTT TTAAAATAGG GATTACACTT TCCACTTCTA TTTTATTAAT	120
	CTCAGATATT TTCATATGAA TTTTTTGAAA TCCTGAATCG AAAAGTTTAG TTGG	174
10	(2) INFORMATION FOR SEQ ID NO: 2572:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572:	
20	CATGCGGTAG GTATTTCTAA TCTATGGACA AATGGCGGAT TTATGCCAAA TGGTATTGTT	60
	GGTTTCTTCT TTGCATTATC AATTGTAATT GGTTCATACC AAGGTGTGGA ACTGATAGGT	120
	ATTACGGCAG GTGAAACTAA AGATCCTCAG AAAAATATCG TTAAAGCAGT GAATGGTGTT	180
25	ATCTGGAGAA TTTTAATTTT CTATTTAGGC GCTATTTTTG TTATTGTTTC AGTGTATCCT	240
	TGGAATCAAT TAGGAGACAT TGGAAGTCCG TTTGTTGCAA CATTTGCTAA AATCGGTATT	300
	ACATTTGCAG CTGGATTAAT TAACTTTGTT GTANTAACTG CAGCAATGTC AGGATGNAAC	360
30	TCAGGGNATT TGCAGTGCGA GTCGTAATGA	390
	(2) INFORMATION FOR SEQ ID NO: 2573:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573:	
	TAGAGTACAG AACATACGCA AGGAACTCGG AGTTTACTCA CGGGACTTnT	50
45	(2) INFORMATION FOR SEQ ID NO: 2574:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574:	
	TACAATTACA AACGCATCGT GAGATGTTTT AAGCATCAAT GAGAATCTAA CTCTCCAAG	59
5	(2) INFORMATION FOR SEQ ID NO: 2575:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:	
	GACACAACGT ATGACGCATG AAGAGTTGCG TGTTGACAAT CAAGATGATC ATAGCCAAGT	60
	TAGTCTAAAT GGTTACACAA AGGGGTCTGA GAAAGATCAA GAAGCATTCA CTAATAATAA	120
20	GGATGAGGAA GCAGTTGCTG CTAAAAATCC TGAATCAGAA GAATATAAAG TGAATGAAAA	180
	AATAAAAAA GAACATAAAA ACTTTATTTT TGGTGAAGGT GTTTCAnGCG GTAAAATATT	240
	AGCGGCATTA TTATTCGGTA TGTTTATTGC GATTTTAAAC CAAACATTAT TAAATGTTGn	300
25	TTTACCAAAA ATTAATACGG AATTTAATAT TTCTGCGTCA ANAGGGCAAG GTTGATGACG	360
	GGATTCATGT TAGTAAACGG TATTTTAATA CCAATTACGG	400
30	(2) INFORMATION FOR SEQ ID NO: 2576:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:	
40	TTTAAATCGT ACCTTAAATT TGAAAGTAAT AAGACACACC AATTACCTTC TAACTCTATC	60
	GATAGTTTCA AACAAGAAAT CGnTAGTACA TTCAGTTATT TAGAACGCGT TGATTACCAG	120
	CT	122
45	(2) INFORMATION FOR SEQ ID NO: 2577:	,
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CACATTGAGG TGCAGTCATA CCTTGTTTAA ATGTCCAAGC ACGTACTTCT T	5
	(2) INFORMATION FOR SEQ ID NO: 2578:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:	
15	AATTATGACT ACAGGTCTGA CTCCCCCTTG TTCAGATCCC TGTACTGGTG ATAAATCTGC	. 60
	TAAATAAACA TCTCCTCGTC TAATCATTCA TTCGTTGAAT TAGAAGATAA ATATGTTTCG	120
	TTGCAATCGC ATGCTTCACA CTCTATCGGA AAAGCTTCGT TCGCTAGGGA GAGATTTAAA	180
20	TCAGCCATTT GTGAATATCC TTCTTTTAAA GATTGTTCTA AGCTATGACT TCTATTTTGA	240
	CTAAAAGATA ACATATGAGA ACCTCCAATT GATTCCAAAA GTTATTAAAT GACCTTTAAT	300
	TACTCTAATG ATAACAAATT TTATATGCAC TGACCATATT ATTTTAACAA TTCATTTGTT	360
25	ACAAAACGGT GGATCACCCA TCATGGATAG AGTCGCGGGn	400
	(2) INFORMATION FOR SEQ ID NO: 2579:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:	
	ATAAAAACCT AATTGACTCA TAATCTTCTA ACGGTATATC ATCCACAATC ACAGTATGAT	60
40	TAGGATTATC GTTAGATACA TCTnTCACTG CCTTATCTAA CCCCTCATCA CC	
	(2) INFORMATION FOR SEQ ID NO: 2580:	112
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:	
	CATGANTNIA ACGGATICAT ICCATATATC AATIGCGTII GITATIITAA TAAIGCTATI	60
55		

	ACTACAACTT CGATTTAAGC TATATTTATA AAAAAATGCG CCTACTCATA ACATTCTTTG	180
	GCTATTTAAC TTTAATAAGC TAGGGCCAAG TTTGTCATAA GATAAGCGCA C	231
<i>5</i>	(2) INFORMATION FOR SEQ ID NO: 2581:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:	
	ACTTCGTAAA ATTTATCTTG AGTGGTTGTT TCTATATTAA GATTCATTTC ATTACACTCC	60
	(2) INFORMATION FOR SEQ ID NO: 2582:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
05	(D) TOPOLOGY: linear	
25		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:	
30	GTCAAATGCT GAGTTCTAAT AATGATGTTG GCCACCATGC ATACAAAAAT GCTAAAAGAG	60
	AATTACGCAA GATTTTAGAT AGCTATCTCG AAAATGGTAA ATTAAAATAT TACGATATTA	120
	TCGTTACAAG CAATTTAGCT ACTAAACATC CGTTTTTCGA GTATGCACGT TCATTTGATT	180
35	TTATCATTGT TTCAGATATC GGTTTAATAA ACGTTGATGT AAAAAGCTGG GGTGAAAAAA	240
	CATTITATCA CTTTGATGTA CCTGATGAGC ATGATACAGA NANA	284
	(2) INFORMATION FOR SEQ ID NO: 2583:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:	
	GAGTCAGTCG AAGTTTGTCG TTCGACCCGT AGAAGTGTAA AACGGCATTG TGAATG	56
50	(2) INFORMATION FOR SEQ ID NO: 2584:	3 6
	(i) SEQUENCE CHARACTERISTICS:	
<i>55</i>	(A) LENGTH: 67 base pairs	

,	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584:	
	TCGACTAATG TAATGTAGGC ATTGGACGTC AAATGTAATG TGGGGCAATC CGACGAGATG	60
10	ATGGTGC	67
	(2) INFORMATION FOR SEQ ID NO: 2585:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:	
	CGTAACCGCC CCTTGTCCGG GCCCTCCAAG CCTTTTAAGG GGACCCCCCG GA	5,2
25	(2) INFORMATION FOR SEQ ID NO: 2586:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 238 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:	
3 5	ATTAGCAACA ATGTCAGATA ATCGATACCA ACTAATTAGG CGAGAAGCGG TTTCTCATGG	60
	TCTTAGTGGC CTAGAAATTG ATGTATTTGA TTTGCATTCA AATAAGTCTA GACATATTAG	120
	CTCGTTATCA GGTGGAGAAA CTTTCCAATC GTCGCTTGCA nTAGCTTTAG GGTTAAGCGA	180
40	AATTGTACAG CAGCAATCAG GAGGTATTTC ACTANAATCA ATATTTATTG ATGAAGGA	238
	(2) INFORMATION FOR SEQ ID NO: 2587:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:	
•	ACTGGAAAAA ACCGCNAACA CGACATTGTC AAAACGACGG CCAGTGCCAA	50

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:	
70	GNGCAATTAT ACCACTATAT TTATTTCTTA TACTCCATTT GATTTATAGT TGTATTAATA	60
	CATTGACTCA ÁAAACTAATT AATCAAATAT GTTTTTTAGA TT	102
15	(2) INFORMATION FOR SEQ ID NO: 2589:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· -
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:	
25	GCATAATATC GGATATGCGn GTGTGTCAGT CnCATAGTCG nTGGATTGCG	50
	(2) INFORMATION FOR SEQ ID NO: 2590:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. '
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:	
	TTANAAATTG CCTnTCCAAT TnTAAGAATC CTTTTTCCAA GGTAAAAAAA	50
40	(2) INFORMATION FOR SEQ ID NO: 2591:	,
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid	·
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:	
	CTTCATCCCT TACTTTTAAT TGTCACGTCA AATAATATTT GTCTTTAACT AGTAATAACT	60
	CCAAATATAT TTAGTTTGTG GTGCTAGCTA TAAACACAAA TGAnTCATAA CACTATATTT	120
	•	

	TGATTTINAA TTATTTATAT	200
	(2) INFORMATION FOR SEQ ID NO: 2592:	•
<i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) Toronosi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	
15	TGCATTAATC ATCTTGGATA CTCTTTCTAC CAAAGTAATG ATTGCACTAC CATGACGACG	60
	ACCAGCAATA GTAT	74
	(2) INFORMATION FOR SEQ ID NO: 2593:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:	
30	CACCTGCTCA CCTCTATTTT CAAACAATTA TGATTGAATT GAATCATTCT AATTTTTGTA	60
	AAGTTACTTG TTTAATTTAT TATATTTATT AACTCTATGA TAACAAAAAT ACTGTTTGTG	120
	TATAACAATA AATTGAGATA CTCAATAATT TGATAATGTG AAATTGATAC TTTTCAAAAT	180
<i>35</i>	AGTTGAATAT GACAATTAAT GATTAGTTTT GCNATGGTGC TATAANCAAT ATTTAGCAGT	240
	TATC	244
	(2) INFORMATION FOR SEQ ID NO: 2594:	
.40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs	
-	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
43		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2594:	-
50	ATATGGTATG GAACTAACGG AAGAAGGCTT AGCATACGTT AAATATGCTA AAGTGATTTT	60
	AGATAGTAAT AGCGAATACG AGAGAGANAT AAAAGGACTT TACAATAAGA AGGTAAATAT	120
	AAGTATTAAC ATGCAAGAMA GTCAGTATTT GTATCGCTAC TATAATAAGA TTAGTGAATG	180

	(2) INFORMATION FOR SEQ ID NO: 2595:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:	
	AAAAAGTATT AAAAATTGCA ATTCTTAAAC TGTTATTCAT ATTAATATTT CTAGCAAATA	. 60
15	ACATTGTAAA ATAAAGAAAA ATAATTADAG TATTGCACTT TATTGAAATT TATATTACGA	120
	TAGTAATGCA GAAATTTATA TATGCAAAAT ATTATA	156
	(2) INFORMATION FOR SEQ ID NO: 2596:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596:	
30	TGATCCGCAA ATCGCTGAAC ACGTTCTTCT ATTGGAATCC CTCCATTCAC TTTTAGCTAG	60 62
	(2) INFORMATION FOR SEQ ID NO: 2597:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:	
·	TTACCTTTAG nTTTTAAAAC CTGACCCTCC AACCAGCCTA ATTGGTTAAA TGGGGATCCA	60
45	TTTATATAAT CCCAGGCCTA ACCTTCCAAG GACCAACCTA AGGGATTAAT CCCCCCAATG	120
	GCCAAAGTGG GATGGGTAAT	140
50	(2) INFORMATION FOR SEQ ID NO: 2598:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:	
_	ATTAATTGGG GAGTTAAATT AAAAAAAAGG GGTTCCTTCC AACCGGANCC ATTCCCATTT	60
5	TGGATTAAAA ATTCCCGCCT TTGAAAAAAT TGTTTGCCGA ACCGCCCTTA AG	112
	(2) INFORMATION FOR SEQ ID NO: 2599:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:	
٠.	ATACCGCCCC CAGTTCAATA AGAAGCCCTG GATCAGACCT GACCCTGGTA TGGGGGGAAT	60
20	ccc	63
	(2) INFORMATION FOR SEQ ID NO: 2600:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:	
	ATACTATGGA ATGCCTTAAT GGTGGATAAT TTCACCAAAT TAATTTTAAA AAC	53
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2601:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:	
	AACTAAAGGT TCTAAAGATA CAGTAAAAAT TGAAAATAAC TATAAAATGC GTGGCGAGAA	6 0
	AAAAGATGGT AGT	73
50	(2) INFORMATION FOR SEQ ID NO: 2602:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:	
	CGGTTGCCAG CCAAAACTTG GCAHCCAAGG CAATTATAGC AAGGCACCCA CCTAAATTTG	60
10	CGGACCACCC GGAATGCGGC CACCAAAGTT GGTGGGAGGC CATTTTAA	108
	(2) INFORMATION FOR SEQ ID NO: 2603:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(wi) CROUNTED DESCRIPTION OF TO NO. 2002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603: AAGCTTATAA CTATTTGTGT TTGTGATCGA GATAGGTTTG CCTGTAAAAA TGGCCATCA	59
25	(2) INFORMATION FOR SEQ ID NO: 2604:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(B) TOFOLOGI. TIMEAT	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604:	
35	ACGTCCAAAG GGCCGTTCGC CCCAGAnGTG CTGGCAAGGT TCCACAACGn	50
	(2) INFORMATION FOR SEQ ID NO: 2605:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
45		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2605:	
	GTCCAATGTC ACATTAATTG ATTGGTATAA GCGATCACAA GGnCATAGTG AATATTTTGC	60
50	ACCAGACGGT GTACATTTAG AGTACAAAGG AGTCCTAGCT TTAAAAG	107
	(2) INFORMATION FOR SEQ ID NO: 2606:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:	
	GTTTAAAGCA ATTTGGAAGG ACATTGGTTA AAGGATGGGA GTGGCAAAAT CTGG	- 54
10	(2) INFORMATION FOR SEQ ID NO: 2607:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:	
	GTTTTAGCTG AAGTTAATGA TGAAGATATC GGAGCTATGG TAATTAAACT AGTTAAACTT	60
	ATTTTCATGC TTGATTATGT TTTATTTCAT TCAATTCAAA AAAGCTATAC AACACATATG	120
25	AATGAGCTTA AAAATTGTTT CGATTACATA GCTGAATTAG ATAATCATTA TGCATTAGCA	180
	ATGTATCGTA GAACGCTAGA ATGTTATACT GAACCACAAA TTGATGATTC AAATGATGGC	240
	ATAGTATTCT CTGAGTTAAC ACATCCACTC ATAGCAGATG GCAGTAGCCA ATGATTTCnc	300
30	ACTATCACAN AATATACTGT TAACTGGGGT CGAATGCTTC GGGNTAAATC AACATTTTAT	360
	GGAAAT	366
	(2) INFORMATION FOR SEQ ID NO: 2608:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:	
45	TTCTTAGACG TCAGGTGGCA CTTTTCGGGG AAATGTGCGC GGAACCCCTA TTTGTTTATT	. 60
45	TTTCTAAATA CATTCAAATA TGTATCCGCT CATGAGACAA TAACCCTGTA TAAATGCTTC	
		120
50	AATAATATTI GAAAAAGGAA GA	142
	(2) INFORMATION FOR SEQ ID NO: 2609:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:	
5	GGGTCGTCAA TTGAnGGCAG GTAGAGCATT AAGTCAGAAT TGTAGTAAAT	50
	(2) INFORMATION FOR SEQ ID NO: 2610:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	÷ .
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:	
• •	ATTGGGTGAT GAATTTTGAC GGTATTGTCA AGTCCAGTGG CTAACTTCCG G	51
20	(2) INFORMATION FOR SEQ ID NO: 2611:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:	
30	ACAAACTTCG GACTGCCAAT TACATTTACC TTGGGGGGTC AGAAACAATG GGTGCATAAA	60
	GGCCCGTGTT TCGAAACGGG AAAAAGCCCA GCA	93
	(2) INFORMATION FOR SEQ ID NO: 2612:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Torobodi. Timedi	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:	
45	ATGATGTTTT TCGGCTAATT TTTATACTGA ATTTAGTTTA ATTAACTTAT GATATTTT	58
	(2) INFORMATION FOR SEQ ID NO: 2613:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:	
	TTCTCACCAT TAACTATGCA TACTCACTTT ACACATAAAT TTGCTTAACA TGCAGAACGG	60
5	AAATAAATCA TTACCACATA TAGATCCCAT CATATATITA nA	102
	(2) INFORMATION FOR SEQ ID NO: 2614:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:	
	TGAACTACAA GACGCTTATA TCATTGACGC ACATTTCTCG CAGTGAAAGA AACACTTGCG	60
20	TA	62
	(2) INFORMATION FOR SEQ ID NO: 2615:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:	
	TGGAGCATTT CACATACATT GGCAACCTCA TGGAGCTTAT CATTCTACCT TGGGGnACAG	60
<i>35</i>	ATATAACAAC ACTAACGCAA CATGGATGGT GTCGTTGATA ACTTTCAATC TATAGAATTA	120
	(2) INFORMATION FOR SEQ ID NO: 2616:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:	
	CTGTAGTAAA TTGCCAGAAT CCGTATCAAT ACCAGTCTGT GACTGCGTTG GCC	53
<i>50</i> 、	(2) INFORMATION FOR SEQ ID NO: 2617:	
, , , , , , , , , , , , , , , , , , ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
<i>55</i>	(e) bittinginger. Godsie	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:	
•	ACATATGATA TGAGTATATT AACGTTTAAA TTATGGATAC TCTAAAGACA GGCGATTTTG	60
5	ANAAATCAGC AAAAAGTTAT ATGATGTAAG TGGGACAGAC ATACTAGATG TAACACATTA	120
	ACCAAGTG	128
	(2) INFORMATION FOR SEQ ID NO: 2618:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,,,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:	
20	CCTAACCGTG TGTGTATGTA TACCTACAAA AAAATTTACA TTGTGACACT GCGTACGTG	59
	(2) INFORMATION FOR SEQ ID NO: 2619:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619:	
	GCCCATGGTC AATCAGACAC ACGGATTGAA CGTTAACAAT TTATGACTTT AACA	54
35	(2) INFORMATION FOR SEQ ID NO: 2620:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:	
45	ATCATTGTCA CATTGAGTAG CCGTAAAATG GTCAGACGAT CAATGCGAAC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2621:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:	
	CTAAGTGTCG CCCGAATAAC CGTCAATCCA CGGAGCACAT AGGATCTCCC ATG	53
5	(2) INFORMATION FOR SEQ ID NO: 2622:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:	
	TGGGACCGAT AATCATTCGC ATGAACACCT TCCACCGTCT CTTACTCACT ACCTACGGC	59
	(2) INFORMATION FOR SEQ ID NO: 2623:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:	
•	ATTAAATTGT TATTTCGTCA TTAGGTGACA ACTTGTATGT AGATATTTTA ACATATTTTA	, 60
30	TGCT	64
	(2) INFORMATION FOR SEQ ID NO: 2624:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:	
	CCGTCCCAGA ATATCATATG ACAAATGTTA AGAGACTTGA ATGATCATAC ACGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2625:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:	
	GTGGTCACCA GGTACGGGGG ATACAGGGGG TTAATCCCAC CTTGGATAAG TGGAAAACGG	60
5	ATTTCC	66
	(2) INFORMATION FOR SEQ ID NO: 2626:	•
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:	
	CCACCAATGG GTGGGGGATG GAATAACCCT TAATGCGGTG GTACCCGGGT AATGGTAGCC	60
20	cc	62
	(2) INFORMATION FOR SEQ ID NO: 2627:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:	
	CATGTTTTTT CATTCCTTGA TGACGACACT AGAGGTTCCC GTGTTCATTA TTAA	54
3 5	(2) INFORMATION FOR SEQ ID NO: 2628:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:	
45	TTGGCCAATG GGCGATACAC CCTCTCAATT CGATACATAA CTCAAGGCTC AGTCAT	56
	(2) INFORMATION FOR SEQ ID NO: 2629:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:	,
	TGTCGCTAGG TAACCGTGCA TCGTTCACAG GTACNTATGA TTTCACCNGA	50
5	(2) INFORMATION FOR SEQ ID NO: 2630:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:	
	GAAGGNCCCA AACCAGGCGT TAAAGGCCGA TTGGGTTTAA ACCAAAGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2631:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:	
	CGCGAGTGTA TCCGTCGATA TGTCGAGAGG AAAGATTGAA GTGTGGAAGA GTGTTGAGTA	60
30	ACCCT	65
	(2) INFORMATION FOR SEQ ID NO: 2632:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:	•
	TGAAAGAACT TTAGCTAGAC GTTCGTAAAG GTCTTTTGAC ATAAAGCTAG AGA	53
45	(2) INFORMATION FOR SEQ ID NO: 2633:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAAAGCCAAA AGGAATTAAT TAACCCCGGG GTTTAATTTC TAATGGGAAT TTG	53
	(2) INFORMATION FOR SEQ ID NO: 2634:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:	•
15	GGTGTTCACA TTCTGAAGGT TTAGAGAGTT AAGATTATAT ATATATAAGT TTTGGGGTGA	60
	TAGATATG	68
	(2) INFORMATION FOR SEQ ID NO: 2635:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:	
	CCAATTTCAC TTGGTGCTGC CATTTCGGTC TCTCGTGTAC TTGTGATTGA GGTGCCATTG	60
30	TTCCCGTAGA TGGTTCACAT	. 80
	(2) INFORMATION FOR SEQ ID NO: 2636:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:	
	CTTACACCCA ACTTATTGAC TTATAATCTA TTAAAGTGCC ATTTTACAAT CTGAATCCCT	60
45	TAATATAGCA ATAATTACAA CTTCCGACAA ATGACTTGTT TTATGTGCGT GATTCATCAA	120
•	TGAACATCGT AATGCGACnT AATA	144
	(2) INFORMATION FOR SEQ ID NO: 2637:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	,

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:	
5	TAATTCGGCA ACTAATATCA AGATCATGAT CAAATACTAC TGCCATTTTC TTATACCTCT	60
	TAATGTGAAA TCACTGnCAA CACATAACAT CTTAAAACTT TGAC	104
	(2) INFORMATION FOR SEQ ID NO: 2638:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:	
20	CATTCATCCG TTTTTTTGGT TCATGTACAT ACCATTGTTT TGTACACAGC GAAGTCAGTT	60
	AACCTTATAT CCTTGTATAA CAGTTGAAAT CGGCAATATT AAACAGTACT TTCCCAATTG	120
	CTTTCTTCCT CAATTGTGCG ACGGACTGTA n	151
25	(2) INFORMATION FOR SEQ ID NO: 2639:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639:	
	AAGATCAACT GAAATTCATG TGTTGCCCTT TATTAAGATC ACATGGAAAT A	51
	(2) INFORMATION FOR SEQ ID NO: 2640: (1) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:	
	TTAGCTAGTT GGTAGGACGG CTACCAGGCA CGTCATAGCG CCTGGAGGGG TC	52
50	(2) INFORMATION FOR SEQ ID NO: 2641:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	. (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:	
	CAGGCTTAAA CCTGAGTTAG TGCCATTCAT AATTGCAATC CCAAGCGACG GAA	53
10	(2) INFORMATION FOR SEQ ID NO: 2642:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:	
20	ATGTTTGTCA TCTGGAGCNA TAGAACAGGG TTCATCATGA GTCATCAACT TACCTTCGCC	60
	GACAGTGAAT TCAGCAGTAA GCGCCGTCAG ACCAGAAAAG AGATTTCTT GTCCCGCATG	120
	GAGCAGATTC TGCCATGGCA AAACATGGTG GAAGTCATCG AGCCGTTTTA CCCCAAGGCT	180
25	GGTAATGGCC GGCGACCTTA TCCGCTGGAA ACCATGCTA CGCATTCACT GCATGCAGCA	240
	TTGGTACAAC CTGAGCGATG GCGCGATGGA AGATGCTCTG TACGAAATCG CCTCCATGCG	300
30	TCTGTTTGCC CGGTTATCCC TGGATAAGCG CCTTGCCGGn CCGCA	345
	(2) INFORMATION FOR SEQ ID NO: 2643:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:	
	CTTATACGGA TGTATAGGTC GGTCCAAACA TTTGATTTTA GTGGAGAGCA GCCTTTCACA	- 60
	AATTATGTTC AATGT	75
45	(2) INFORMATION FOR SEQ ID NO: 2644:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Loronor. Linear	

	·	
	TACCGGTTAA TTAACCAGGG CCCCGGTAAA AAAATCCCCG GTATTCCCCA TTCCAAC	57
5	(2) INFORMATION FOR SEQ ID NO: 2645:	
J	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:	
15	AAAGCAATTC GCCCGATAAG AGTAGAGACG AATTGCTTTT AAGGTTAAAA CAAAGTGAGT	60
	TCAATT	66
	(2) INFORMATION FOR SEQ ID NO: 2646:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 63 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:	
	CAGTATAACT TGTGACCTAT TTAGAGGGGC ACGGTTGGTA CAATGAGTCT GAAACCGTAT	60
30	CAA	. 63
	(2) INFORMATION FOR SEQ ID NO: 2647:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:	
•	TAGAACATGG ACCGGTATTT TACATCCTGT ACGCCTAATC TGTTGTAAGT ATCTTTAGTG	60
45	AACCGTTGCT CTGGAATAAC CGCGATTCTG GGCAAACAGT GTGTAAACCG ACTnTATGGG	120
	GATGTGTGAG TAATCATTGT GNACTGTTGA TTCTGTTCTG GAATCCCATT TCACAACACG	180
50	ATCTTGGAAG TGCTGTCATT TTAGATGC	208
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 2648:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:	
	TTTTAACCTA AAGAATACTA ACACTAAAAG AGAATGATTC TGTACCGCTT TCCTTTTTCA	6
10	CTCAATAACT TTATATTTAG TTATCCTTAT AATTGTAATT TATGTTAGTT GGTAAATnTT	12
,	TACATATATG TATTTGATAT GCTTGTAAAT	15
	(2) INFORMATION FOR SEQ ID NO: 2649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:	
	AGTTTAACTG ACATCGAGTG GTACACAATA GCAATGGTTG TGTGTAAAGT CCTGGTGACA	6
25	ACATATGAGA GTAACATTTG TAGTGATTAT CTTGTACTGA GAGAATTGAC ATCTATGAAG	120
	TTTATCACGT GCAAATAT	138
30	(2) INFORMATION FOR SEQ ID NO: 2650:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:	
40	TCACAATTGC AAACTTCTGG CACGCACTCA TCTGCGATTT CACAAGCTAC AT	5:
40	(2) INFORMATION FOR SEQ ID NO: 2651:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:	
	GAGTCAAATT AAAATGCCTA TTGGCCATTG TGATGTATAA TCACTTAGTT CACATATACT	60

	(2) INFORMATION FOR SEQ ID NO: 2652:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:	
	GGGCGGTAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	. 60
15	AGCAGAG	67
	(2) INFORMATION FOR SEQ ID NO: 2653:	0,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:	
	ACACATCTTA TATGTCTTAC TGATTTAAGG AAAGAATCAG TGGATCAAAC TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2654:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 261 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:	•
40	CAAGCTGTAA ACCAAGAATT CCAGCATTAA ATATCTCTCn TGGTATCGGT TGAGATAAAT	60
	ATTCCGTGTG CTCATTAAAT GTAGTAATCT TTATTGTAGT TCCTCAACCT ATGACACGAA	120
45	TATTGCACAA TATTAGTATA GACAAATATT TCCTTTATAA TCTCATTCAA TTTTCTCCTT	180
	TAATTATGTA TCATACATTG TATATTCTCA TATAGACGTT TTGnCATATT CATAGCTTCA	240
	ATATTAGTGC ATTTATGTAT T	261
50	(2) INFORMATION FOR SEQ ID NO: 2655:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
5 5	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:	
	AATCCTATTA GCACTTATAA TGATCATGAA AAGATGTCAT CGAGAATCAC CTAGTACACG	60
5	(2) INFORMATION FOR SEQ ID NO: 2656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:	
	CGCCGAAAAC AATAAATTCT CGGAACATAG AATTTATCAC ATACCACGCT TGGATTATCA	60
	CAATGGACTG AGTCG	75
20	(2) INFORMATION FOR SEQ ID NO: 2657:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:	
	TATTAAATAT GCGGTTGCAT ATATCTACGG CATGATTTAA CCGTGAACCA TGAATCATTT	60
,	TAATCGGGCA CGCGTAAAAT GCTCATTGAT CCGCANATAC CACTATATAT CTAATAGCAA	120
35	GCGTCCAGGA TTCTGTGTTT TATAAATTTA AACTAACTGA AACGTGTGTA TCAGTTCACT	180
	CCGnTCGATT ACCACACTTC AA	202
40 ,	(2) INFORMATION FOR SEQ ID NO: 2658:	
,	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:	
<i>5</i> 0	CGTACATGTG CATCATGTAT CTACGTCAAT AAGATGATGG GGTCACATGA TTGGACCATT	60
	(2) INFORMATION FOR SEQ ID NO: 2659:	

2300

· *55*

5	(A) LENGTH: 207 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:	
10	CTAATCATGT CATGTCTACA ATTATTTGGA GTATTGCTGA CGAAATGCGT TGTACAACTT	60
	TTTCATTCTA GCACCTTGCG GGGGCCCACA AANGAATTGG TCCATTCTCA nCATCAGTGG	120
	GGGGCGCGAA TAATTTCGAA ATTATTCTGC CACTCCCACT TCATCGATTA AGTTGTAACT	180
15	CTACATTACA TTTGTCTTAA ACCATTG	207
*	(2) INFORMATION FOR SEQ ID NO: 2660:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:	
	TTAATTATGT ATAATACTTA ACAAGATCAC CTGATAGATG TCTAAATATT ATCT	54
30	(2) INFORMATION FOR SEQ ID NO: 2661:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:	•
	ATTAAAAAA AATGGGGTAA TTTCCGCCAA ATCCCGTTTC CCCCTTGCCA AGGCCAAATT	60
	TAACCACCCT TGCCAAATNA TTAAGCCAAA TTTTCCGATA TTTGTTTCCG TAATGTTTCT	120
45	TTAATTAATA	130
	(2) INFORMATION FOR SEQ ID NO: 2662:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	

	AAAGTAAAAC CAGTCTATTC AAAAAGGTGA AAAATGGTGA	CGCAGCGTAA	ATAANTGGTC	60
	TCTGGTAGGG TAAATCGCGT TGTGGGTTTG TCACATCAGG	AACT		104
. '5	(2) INFORMATION FOR SEQ ID NO: 2663:			
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
		•		
15.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2663:	· .	
	AAAAAGAATA AAAGGACTCG AAAAACTCAA AACTTATTnT	AGATAGTCAT	CGTGACAAGA	. 60
	AACAAACATT TAACTAGACT AAGAAAAATG CTTCGATTAA	AAGGCAGACT	CATCA	115
20 .	(2) INFORMATION FOR SEQ ID NO: 2664:			
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
		•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2664:		
•	GCATGCGCCA CGGTGTCTCA GCAGAGTGAC TGCCACCTTG	TGTGCGCAGA	GTCTGCGCCT	60
	AGTACAGTCA GGGTGAAACA CNCTATACGC ATTAGGTACA	GTACTTCCTG	TCTCCGACTT	120
<i>35</i>	GAGTAGAACG TGACATATCT ATCAGCATTC ACTCGAAAAA	GGGA		164
	(2) INFORMATION FOR SEQ ID NO: 2665:			•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
45				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2665:	•	
	AATTACGCAA THTCCCTGTC TTAHTGAAAG GAATTGACCT	GTTAATTCGT		50
50	(2) INFORMATION FOR SEQ ID NO: 2666:			
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:	
_	ACAATTCAAT AGAATTTACC CGTAACAGCG TTGCACTGCA CTCAAGACGG CTGACGTATA	60
5	GCAC	64
	(2) INFORMATION FOR SEQ ID NO: 2667:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667:	
	GTAGAACCAG CGACGGCGCG GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCGC	56
20	(2) INFORMATION FOR SEQ ID NO: 2668:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2668:	
-	GGATCGATTG ACTACATGAC GTGGNGACGC AATTATACGG ATAGTCCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2669:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:	
45	GCAAGATCGA ATTACAATCA CGACGATCAA CGCACGTAAT CATCTCTGAT CACAGTAA	58
٠	(2) INFORMATION FOR SEQ ID NO: 2670:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:	
_	ATACCAGCCA GACTTCGATC AACAGTGTTC AACTGCATTG CCCAGTAAGT TGGATAGCTC	60
5	GCACATAGTG CTACAAGTTA ACATATACAN CGAGTTTGTA TCTCAAGCTT GAAGCTTGAC	120
•	TACC	124
10	(2) INFORMATION FOR SEQ ID NO: 2671:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:	
20	CGCTTACTGC ATAAAAGCCC CTAACACCGG GGCACTACGC TCGTTCGCCG GCTT	54
	(2) INFORMATION FOR SEQ ID NO: 2672:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:	
	TCAGCGATTT AACACTAATT CTTCTAGCTA TTCTCTGTAT TTGGACGACG A	51
35	(2) INFORMATION FOR SEQ ID NO: 2673:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid	,
40 .	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673: GATAAGTTGT ACCATATTTC GATGCAATTC AATGGACAAT GAGGTCACCT GGCTTGT	57
•	(2) INFORMATION FOR SEQ ID NO: 2674:	51
50 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:	
5 .	TCCTTTGGCC AATTTTTCCA AGTTTTAACC CAAACGGCCC GGGTTGGGTC CCCAATTCCA	60
	ATCCAAAATA ATTTTA	. 76
	(2) INFORMATION FOR SEQ ID NO: 2675:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
15	(b) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:	•
	TCCGGGAACC TTACCCAGTG GCCCTACCCT ATGGGTTAAC CCAACCAGTG GGGCCA	56
20	(2) INFORMATION FOR SEQ ID NO: 2676:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	٠.
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:	
	TGCGGGGTCT CGTGCCGCCG TCTGCGGTGG TTGTTTGT	60
. ,	GCCAGCT	67
35	(2) INFORMATION FOR SEQ ID NO: 2677:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:	
٠.	GGACAGAGGC CTTGACCCCC CCACAATCCT GATTCACCGT AAGTTGCTCT CCCCC	55
	(2) INFORMATION FOR SEQ ID NO: 2678:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: IIMEMI	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:	
	AAATTGGGGC TTCCATCCCC ATTCCAAATT ATTAAAACCG TTTAGGGGCC TTATTGGCAC	60
5 .	CATGG	65
	(2) INFORMATION FOR SEQ ID NO: 2679:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:	
	ATTTTGGGAT TAAACCCTTA ATTAAAATTG GCCGGGAAAA GGAAAAGGCC GGTTGGGAAA	60
20	AGGCCAAGGA AAAGACCTTG GGANACATTA AAAACCTTGG GCCAAGGCCT TCCAAAAACC	120
•	GGTTGGTTTT TATTTTGGGA ACCAAATTGG GGGGCCGGGA TTGGGCCAAA ACCTTG	176
	(2) INFORMATION FOR SEQ ID NO: 2680:	
<i>25</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
•		.*
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:	
35	GCCCCAAAGA ATTCAAATAA CCnTTCGGAC CCGGTAATGG CCACnTAATT	50
	(2) INFORMATION FOR SEQ ID NO: 2681:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	~	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:	
	TGTGCATTTA TTGCATAACC TATATATGTG TGACCGATAT TTAGTGCGCA CTTCAATGGT	60
50	GCG	63
	(2) INFORMATION FOR SEQ ID NO: 2682:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:	
	TTATCCAAGC TTCCGGATAG TTTCAAGAGA AACCAATGAA ATCCGTTATG GGACCAATGG	6
_	GT	۔
10		6
	(2) INFORMATION FOR SEQ ID NO: 2683:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		٠
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:	
	AACAGCATTC AAGTGAGTTA CTGGGGTTTA TGCACCATCA TTGGATATCT GCACAAGGAA	6
25	TTTCAACGTG	70
	(2) INFORMATION FOR SEQ ID NO: 2684:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:	
	CTTAAAATTC CCCAGTTTCC TTCCTTTTAA ACCCCATGGA ATTATCCCGG CCAAAAATGG	60
40	ACCATTAT	68
	(2) INFORMATION FOR SEQ ID NO: 2685:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:	
50	TTTTAACAAA ACACCTAGAT ATGTTCGCTG ATCAGAGATG CCTGGTGACC GGTGATCC	٠.
		58
	(2) INFORMATION FOR SEQ ID NO: 2686:	

5	(A) LENGTH: B7 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:	
10	ATCCATCCTT ATAGGCATTC ATCCTTTAAC ACCAACGATT TACATTATGG ATATAACGAC	60
	TTGAGGGGGA ACGTGGGGTC CATCCTA	87
	(2) INFORMATION FOR SEQ ID NO: 2687:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:	
25	ATGGCTGGGC GCTTTACGTG GCCACATTAG GATTATGGCA CTGAAGCGTA	50
	(2) INFORMATION FOR SEQ ID NO: 2688:	-
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
3 5 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:	
	AACGGTCGTA GGCAAGGGAC TCCCCCCnGG nGCTAnATGA ACTGGTCGTA	50
10	(2) INFORMATION FOR SEQ ID NO: 2689:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:	
50	GCTAGCATCC ATGGCTCCTA TGCCGAAGCT GAGTAGACTT AGGTGACGGG TGCGTGACAA	. 60
	(2) INFORMATION FOR SEQ ID NO: 2690:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:	
	ACTTAAAAAA GGAAGATTAG AAAATTCATA AAAAAATTTT GCTGGGGATT CTTGATCCCA	60
10	TGGGCCCATn TCTGGATTTA GGTTATTGGG TTGGCCAGCC AGGTTAGCGG GGCCCCCATT	120
	CTTCCAGGCT CGGTTTCTCC CAGGAC	146
	(2) INFORMATION FOR SEQ ID NO: 2691:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:	
25	ATTGGTGTCT AGATCATTTA ATACTAAACA TACAACACGA CTAATTCCAT TCA	53
	(2) INFORMATION FOR SEQ ID NO: 2692:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2692:	
	TATTGAATTC AAACTATGTA CTATTTCCTA AATAATACAA TAAAAACGAC TACCATACTG	60
	GCCAGAAATA TATTTTATTT GTTACACATT AATTTCAnTC CTCCATAATT TGC	113
40	(2) INFORMATION FOR SEQ ID NO: 2693:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:	
	GACTTATGTC CGTGTTCCGC TGAAGGCACG TCACGTAAAC TACCCGGTAC AGCT	54
	(2) INFORMATION FOR SEQ ID NO: 2694:	

GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTNACA ACGCCGAGAC TCAATGGCAT CCTGTACNTG ATCTATGCCG GAAAACACTA GTCTATATGC 18 CCGCAGACGT CCACTATATG CATC (2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12	_	(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT TATATCATCA GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTAACA ACGCCGAGACGT CCACTATATG CATC (2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT (D) INFORMATION FOR SEQ ID NO: 2696: (1) SEQUENCE CATCATTCGC TGGTATTATC ATANTGCGGT TA (2) INFORMATION FOR SEQ ID NO: 2696: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDENSES: double (C) STRANDENSES: double	5			
GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTAACA ACGCCGAGACGT CCACTATATG CATC (2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 26 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 27 38 40 (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 45 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (C) STRANDENESS: double (D) TOPOLOGY: DOUBLESS: COUBLE (C) STRANDENESS: COUBLE		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:		
ACGCCGAGACT CCACTATATG CATC (2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2695: ATAACTCTAA TITGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGAAAT AACGAACGCT (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2696: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 45 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT	TATATCATCA	60
(2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TITGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAACATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA	ATTTGTnACA	120
(2) INFORMATION FOR SEQ ID NO: 2695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TITGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT 6 GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA 11 (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC 6 GTAAACACAA TITACTTATT GAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ACGCCGAGAC TCAATGGCAT CCTGTACnTG ATCTATGCCG GAAAACACTA	GTCTATATGC	180
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TITGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT 6 GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA 11 (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTITAAC 6 GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15 ·	CCGCAGACGT CCACTATATG CATC	•	204
(A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 45 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2695:		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695: ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT 6 GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA 11 (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS:	20	(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA (2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC 6 GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25		A D CCA D CCCTT	60
(2) INFORMATION FOR SEQ ID NO: 2696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCARAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC 6 GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double				
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696: TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	<i>30</i>		TA	, 112
TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC 6 GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 12 AGCACTCATC TATAGTACTC AAATTCAG 14 (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
GTAAACACAA TITACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT 45 AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696:		
AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA	CCATTTTAAC	60
AGCACTCATC TATAGTACTC AAATTCAG (2) INFORMATION FOR SEQ ID NO: 2697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA	CACTTTCCAT	120
(i) SEQUENCE CHARACTERISTICS: 50 (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45 _	AGCACTCATC TATAGTACTC AAATTCAG	,	148
(A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2697:		
	50	(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	: -	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:	
	CCTATAATGC TAAACTTCAT ATATCTCTTT GGCAACTATC TCCCTTCTAT TACCAAAGTT	60
5	ACGATAGCAA RACAATAAAG CAAGCATGTC ATGCTTACTT C	10:
	(2) INFORMATION FOR SEQ ID NO: 2698:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:	
	TTGATAACAT TTGAAAAGCT GCTCCGATAT CAGCAACCAT TTCATCGACC ACAATATACG	60
20	ACATAGTCAC AAAACTGATT AGAAGACACC AATTGCTGAT TATCAAATCA CAAATTTAAG	120
	ntgagattca a	131
	(2) INFORMATION FOR SEQ ID NO: 2699:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(vi) SEQUENCE DESCRIPTION SECOND TO NO. 2500	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:	
35	GATAGCGGTT GTTAATCAAA CGATGGTACA TGCTTACATG ATGCGCCATG TTTGATAACA	60
	GCTCTCTATG ATTACGATGG AAGAATGGTT TATTTCATCT CAATTATTCC TATTAAATGn	120
	AACATGCCCT AGCAAACGGA TACAACACAA TCACAACATC ACTTTGAAAT TGTTAAACCT	180
40	GAGAACCACA TACGCGDAAC AC	202
	(2) INFORMATION FOR SEQ ID NO: 2700:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		٠
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:	
	TTCGAATTTA ACAAACGTAT CACGCCATAA AGGTTGTATA TGTTGTTTGT AAATTC	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
. 10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701:	
	TATTGCGGGC TTATTAGTAC ACGATCTATA TGATGGTCAA ACTTATGTCT TTCATATTCA	60
	AGTGTGACAT TGTGCGGTGA TTATATTTAC GCGTCGTTAT CTACGAACGC CACATTAAGA	120
15	TTCGAAACTG ACAATCAACT CATAACGCCA TGGTCCTAGA AAn	163
	(2) INFORMATION FOR SEQ ID NO: 2702:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:	
•	TANACAATCG TAATCGAGTC AATGATGTGA ATTGCCCACG TGAGCGCTAA GAATGCGACA	60
30	TTCCACACGA TAAGGCAGTG CGCATGCGCA CTGACCTAAT AACACTGAGG ATGAGTACTA (2) INFORMATION FOR SEQ ID NO: 2703:	120
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:	
	CTGCTTGATT AGGATCGTAT TTATATGAAG ACTGTGTTCC ATAATGATGT GCGTTTTGGC	60
45	TGAAGTCCCT TAAATGTACn TGTGTATAAA TGCTATAATT TAG	103
45	(2) INFORMATION FOR SEQ ID NO: 2704:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTATAACGC CTCTCATCGT TTGGTCACAT ATTACCATTA TTCATTTTAT GTTCTCGATA	60
	ATTGTATGCG NTGTTTCTCA CTGTCATCAC ATTGATACAA CTCATTGTCA CTTTATACGA	120
5	TTCACACACC TCGATACGAG TGATGATATA TGACAAAGCT	160
	(2) INFORMATION FOR SEQ ID NO: 2705:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:	
	TTATTGTTTA AGATGGTTAA ATGTCATCAT ATAACANTTA ATTTTTAGCA ATTCGATATG	60
20	CCTATAACCT ATAAATTTCA CGTCAACAGA AAGTGACAGG CATACGGATG TGTGAA	116
	(2) INFORMATION FOR SEQ ID NO: 2706:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		٠
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:	
	TTACACCTGC AGTGTATGGA CTATGGCTAG ATACAATAAT TTTAGTCATC AAnCTACATC	60
35	ATACAAACTT ACGACTTACA CATATCTGCT TCTALATCTT CTAACTGATT AAAGCTCGAC	120
	ATCGGAAGCT ATTCTAAATT ATTATCATAT ATCTAACTAA CTGACCTAAT ATATACTACC	180
	ATAAATAACC CGCCTCAAGG TTCGCATCCG CATATAATGC TTAGAAGTC	229
40	(2) INFORMATION FOR SEQ ID NO: 2707:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:	
50	TCCATATCAA TCCTGAAAGT ACACATATAT CGTACACCAT ATGGTACAAT TTCCTATAnT	60
	ACACATCACG CATCTTTCAA GACACATGTT AGGCGCTGGT CGGTGTATCT CAGAAATGCA	120

	(2) INFORMATION FOR SEQ ID NO: 2708:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:	
	GGAACTTTTC TGATTAAGTG TTCACACGCC AACCATAACA TGTATTCATG CACACAATTG	6
15	TTGCTAAnCT CACTAACAAC ATACGACCAT TTTACTTTCA ATACATATGA TCCGTATAAC	120
75.	TCGAATTChC TGCTTATAAA TGACCATTTT GACGTTCACA ATGTTAAACG ATTGGAAATT	180
	TTAAAGTTAG CATGTCCACA TCCGAGCAGT AACTATGCCG TACCATTTGT ATA	23:
20	(2) INFORMATION FOR SEQ ID NO: 2709:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709:	
30	TTGTACCTAC CAACGAGGAT ACAATGGATG TCACACGAAA ATTGGGATAT AGATGTCCCA	60
	GT	62
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2710:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(w/) crowruge programmov and to vo and	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:	
	CTTTAAAAAG GATAAATGAT TGAGANAAAA ACCCATTCGA AAATCATGCT GCTCATGCTG	. 60
	TAGACTTATC GTTTGGACAC TCGCGTAAGA GCGAGCAGTG AAAT	104
50	(2) INFORMATION FOR SEQ ID NO: 2711:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 141 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:	
	GTCCAGAATA TTAATCTGAC ACAACCATTT TAGCnGGTGG ATTAAATATA TACGACCTCA	60
5	CCGCAAGAAT CTCTATTTAA CTTAACCTAT CATGAATAAA CTGGCGCTTG TGATATCATA	120
	TGAAGATTAG CGAAAGATAG C	141
10	(2) INFORMATION FOR SEQ ID NO: 2712:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:	
20	TGGTATTGAA TAGCAAAATT TTGACACTAT TTGCATACTC AATGATACAT CATATCGTTA	60
	TATGGATTIT TATGGTCATT AATGGTAAGA ATTTGATACG GAATATTGGC AGGTTTGGAA	120
	ATCAAATAAT ATGAGAAATT GTATTAACNA TTAGTCAAGT TAACGCTCAT AAATAGACTC	180
25	ATChCGCGCT ATAACGCTTA CC	202
	(2) INFORMATION FOR SEQ ID NO: 2713:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:	
	TTGAACTGTC TAAGACTTGG ACGCTAAATG AATGCGTTGA TACAAACGGT GAATCC	56
40	(2) INFORMATION FOR SEQ ID NO: 2714:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714:	
50	CATGACCGAC ATCAGGTGCA AACTCCCTCA TTAATCTGGG AAAACTGTAT CCCGGTAGCT	60
	in a second transfer account a	- 0

	(2) INFORMATION FOR SEQ ID NO: 2715:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2715:	
•	CCTATAACTA CTCAATATTG CAATTACACA TCCTCACTTT TGTCAATTGT TTGACAATCn	6
15	AATACACGTT ATGCACAACT CCATTTTAAC GGAATGGAGA GCACATATGG ACAGTAAATT	120
	(2) INFORMATION FOR SEQ ID NO: 2716:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:	
	GGAATATGTA CTATTATCAT TTGATGTTAT TACTCATATT TTTTGTAATG AATGCTATCA	60
30	CCTACAAAAA ATTTACTTGA AACAGTAATA ATAATTAATT ACCACAAACC ATGATAAATT	120
•	TAATANCTAA TCTAAAATAT CGCATGTTCA NAGCCACAAG ATATAACGCG TTCCGTAGAT	180
<i>35</i>	GGAACTAGAT AGTATAAGGC GCCGTGGAGC CTGGCCT (2) INFORMATION FOR SEQ ID NO: 2717:	217
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:	
	ATGACATACG CGCATATACA TGCTATCCCG AACTAATATT GATGCGTATT ATGTAATTGG	60
	AGCGAACACT CA	72
50	(2) INFORMATION FOR SEQ ID NO: 2718:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:	
·	CATATCATCA CTATATCCAT TGCGTAATAG TGATGATATT GATTGGCATA ATGGTATATG	60
10	GCAGATACGA TAACATAACh AACACCTCGG ATAATTGCTA TTAGCTGCGA AGTTATCGTG	120
	CCTGATTTAA CGATGTAGA	139
:	(2) INFORMATION FOR SEQ ID NO: 2719:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:	
25	CTCTATCATA TCTAGCCATA TGCATGAGAT TATCGTTTAT CTCGACACGC TCTTAAAAGG	60
	CGACACCGGC ATATGATGT	79
	(2) INFORMATION FOR SEQ ID NO: 2720:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:	
40	CAATCACAAT TGAAATTACA CAAATACAGC CCATTGCATG ACACAGACCA ATC	53
40	(2) INFORMATION FOR SEQ ID NO: 2721:	
45 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:	
	CGCCCGAGGC TACCATTTTA CCATAAAGAC CGGTCTAAAT CCTTCCGGTT TCCATGGGCC	60
	ATTTGG	66
<i>55</i>		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2722:	-
	Theoregee analtgacee agagegetge eggeacetgt cetaegagtt geatgataaa	. 6
	GAAGACAGTC ATAAGTGCGG CGACGATATC ATGCCCCGCG CCCACCGGAA GGAGCTGACT	12
15	GGGTTGAAGG CTCTCAAGGG CATCGGTCGA CGCTCTCCCT TATGCGACT	16
	(2) INFORMATION FOR SEQ ID NO: 2723:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2723:	
	CCGGGCCAAG CTGGTGATCA CCGATGTGGA GCGCCAACAT CGCATCGAGG AAAT	54
30	(2) INFORMATION FOR SEQ ID NO: 2724:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2724:	
40	ATCGGTGATC ACCAGCTTGG CCCGGGACAA CTGCAGAGCG TGCAGCAGGA ATTC	54
	(2) INFORMATION FOR SEQ ID NO: 2725:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2725:	
	AAAACCATTG TCCACCTTTA GAAAGCTTTT GTTTTGGGAA TACCTAAACC GTGGTTAATG	60

	(2) INFORMATION FOR SEQ ID NO: 2726:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:	
	TTTAGGCCCT GTAACnGnTT GCCGnTTGGn CCGTGTGTAT ATCGGGGGAA	. 50
15	(2) INFORMATION FOR SEQ ID NO: 2727:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:	
	GGATCATTAA ACGTGTATCA CCATCCAGTT TGCAAGACGG ATAAACTGCT GCAACG	56
	(2) INFORMATION FOR SEQ ID NO: 2728:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2728:	
	ACCCATGGAG AATTAAATTT AAAAACCGTA TTCCGGGTGG ATGCTGGGTG GGTAAGTTGG	60
40	CCATACTGGG	70
	(2) INFORMATION FOR SEQ ID NO: 2729:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:	
	ACCACCTTCC CCAATAAGCT GGCCTAAAGC CCCATAATGG GCCATGGTGC GGCC	54
55	· · · · · · · · · · · · · · · · · · ·	

5	(A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:	
	TGTTTGGGGA CCTTAAATGG TTCCAAATTC CAACCACCCA CCAAAAGAAT TCCAGTTTCC	60
	AATTAAGCCA GCCA	74
15	(2) INFORMATION FOR SEQ ID NO: 2731:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731: AAGTTGGGGA TTAAGGCCAG TTATGGAAAG GATGGATGGT CCATTTGGGC TTATTAGAAG	60
	AGCATT	66
30	(2) INFORMATION FOR SEQ ID NO: 2732: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:	
40	TTTGnAAAAG CCnGTAAGAG TATTTGATTT TGTTGGAGGC CAAACCAGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2733:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:	
	AGTACCAGCG GACAATTCGG ACCCAACTTG GCAATTTGnG GTTTTGGACC AGGAAATAAA	60

	(2) INFORMATION FOR SEQ ID NO: 2734:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:	
	CCAGGCTGGC AGTTTTTCTA AAATGGTGGT AGGAAAATTA nCCAAACCAT TTAGGATGGC	60
15	ATGGTCTTCC ACGGATGGCG GCCGTTAACC CCAAAAAAGG CCATTCCATT	111
	(2) INFORMATION FOR SEQ ID NO: 2735:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:	
	CGTATGGGAT GGCCATTCTG ATGACACACA ACGGTTAGGT TAGCAACGTT GTCAAA	56
30	(2) INFORMATION FOR SEQ ID NO: 2736:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2736:	
40	CAATCCGGGT GTGCGGGCGT GTGTACAAGA CCCGGGACGA TTACCGACAT	50
	(2) INFORMATION FOR SEQ ID NO: 2737:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2737:	
	TAACATTTAT TGTGGAGAAA GTNAGGTATC GTGGTAGTGA GGATTGTGTT	50
<i>55</i>		

5	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2738:	
•	TAAATTTAAA CCCGTCCCGG TTTCCCAAAT TTGGAATTTT TTGGAACCCC TGT	53
	(2) INFORMATION FOR SEQ ID NO: 2739:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2739:	
05	ATACCCACCT TGGATTCTTA ATACCCCAAA AAGGCCGGGG CAACTTGGCT TAAAAAACTG	60
25	GCTTGTTTAA ATTGGATTTC CGGCT	85
	(2) INFORMATION FOR SEQ ID NO: 2740:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2740:	
	GGAAAGTTTA GTAGTTTAGA GTCGAAAAAT TAGTTTTCTA GTGTAACGAA TCCGGACCCA	60
40	AATTTTTTC	70
	(2) INFORMATION FOR SEQ ID NO: 2741:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2741:	
	CGCGCCAATT TACCTGGCGC AGCAGACGCT CAACGAGGAG CACGGCAGCT GCG	53
<i>55</i>		

† .5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:	
	TGAAGAAATC GCACACATA TCGAACGCAG ATCGCACATC GAATGCATCA GAATCAGCTC	60
	(2) INFORMATION FOR SEQ ID NO: 2743:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Toronogi. Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:	•
25	TATCACCTCT TTTGCATATT ATTAGAATAT ATAATGATCT TTATAGAAAG GAAAGAAGAA	60
	GAGTTATCAT NGCGATATCG CCCAGCGCGT CGTACACTAT GCCATGAATT ACACAATCAT	120
	GCCTC	125
30	(2) INFORMATION FOR SEQ ID NO: 2744:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:	
40	GAATTTCCCC CGAAACCGGG AAAAATTTTT CCCAACCGGT GGCCTTCCCC CGTTCCCGT	59
	(2) INFORMATION FOR SEQ ID NO: 2745:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:	
	TTTTCCTTAA GTTAGTTTTT TTATTGGGCC AAAACCGGCC CCAGGAATTG A	51
55		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746:	٠
	TAATTTGGTC ATAATGTTGT TTCAGATGAA ATGCTAACAA TACACTGATT ACAGT	5
	(2) INFORMATION FOR SEQ ID NO: 2747:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:	
25	ATGGTGGAAT GGGATTTAGG TGGATGGCCC CCCCAACCAG CCGGTCCTTT TTAAGGAACT	6
	TTGT.	64
	(2) INFORMATION FOR SEQ ID NO: 2748:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:	
	AACAAGAGTT ACATTGGTTG TGGAAATCAT CGGTTTTAAT TAGTCCAAAA GGATGGATTC	60
40	AATCGGTAGG GGGGTAAG	78
	(2) INFORMATION FOR SEQ ID NO: 2749:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:	
	GCAAGTGGCG GAGTCACACT TATAGACAAG AAGTACGACA TCTTGTATGT GGTG	54

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2750:	
	TATTTAGATT CAAAGCATCA AATTGGTTTC GTACCCTTTT GCACATCGGT TGGGATAA	51
	(2) INFORMATION FOR SEQ ID NO: 2751:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2751:	
~ -	GGAAAACCCC CCAAATTTTC CCCCCCGTT GGGAAAAGAG TTCCCAAAGT TGGAATTAGT	. 60
25	TCCCAAACCC GGGAGTTCC	79
	(2) INFORMATION FOR SEQ ID NO: 2752:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2752:	
	AGAACCGAGA GATAGTGCCG AGAGAGCGAG AGGTTTTAAT AGAGATGTTT GGCCGTACTA	60
40	GTTAGCCG	68
	(2) INFORMATION FOR SEQ ID NO: 2753:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2753:	
	ATAATCTATG GGGGGACCGT CTGGTAAGGA ACCTGGTTGC CCTGCCAATG AAGCCACCCT	60

	(2) INFORMATION FOR SEQ ID NO: 2754:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:	
	ACAAAGGTTT TACGCCCAAA TTGTTCACTG GCTAACTGGG CGATGGTTAG TATTGGCAGC	6
	GCAAAAGTGG CAGGGG	
15		7(
	(2) INFORMATION FOR SEQ ID NO: 2755:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2755:	
	ACCTCAGGGA CAATTAAAAG TTTTTCTTCG GAATGAATGA CAACAACAAA T	51
30	(2) INFORMATION FOR SEQ ID NO: 2756:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
35	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:	
40	ACGTATTCCC TCGTTCTTAG GTCTTCTAAA CATAGGTGAC TTTTTGGTCG	50
	(2) INFORMATION FOR SEQ ID NO: 2757:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:	
	AAATGCTTCG TATTAACGCC TATTTTAGCT CCGTTATAGA CACAACTTAC ACA	53

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2758:	
	ACACGGCAGC GAATACTCGT TTGGTGAGCC TGTACACATC TAACACGAGA A	51
	(2) INFORMATION FOR SEQ ID NO: 2759:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>20</i> .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:	
25	GGGAAAACCA ATTAAGGATT TAAAGGTTNA TTTAAAGGGG CCGCCACCGG GTTGGGGATG	60
	CCCTTTGGGC ACCTTAAGAA AGCCCCGATG GAAAGGGACC GGTTACCTTA ACCGG	115
•	(2) INFORMATION FOR SEQ ID NO: 2760:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:	
	TTTGGCCAGG CCAATTAATT CCTGGTGGCC AATTAAATTT AAGGGGACCT TTGGGGGAAT	60
40	AAGGTTTAAA ATTGGAAAAT GGTCCAATTT GGACCTTTTG GCCAATTGGA TTCCCGGCTT	120
	AAAAAGATTT GGACCGGTAA ATCCCTTTTT AAATTACCTC GGGCCANGGC CCAACCAAGC	180
45	CAAACCAATT TAAATCCGCC TGGAAACCAA CCCATAnTTC CTTTACC	227
-10	(2) INFORMATION FOR SEQ ID NO: 2761:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

2327

	ACACTATTGT GCCAGCGCAC CTTCGAGGTA TCTTGCATCA CTCAGCTGTT TTTTACTGT	59
	(2) INFORMATION FOR SEQ ID NO: 2762:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:	
15	TTATCCTGTT CCTAAGCCCG ACGGCTCGGC CACACGATTA ACCTTTAACG CCATCTTGTC	60
•	CAACCTGT	68
	(2) INFORMATION FOR SEQ ID NO: 2763:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2763:	
30	TGGAAAGTAC CATATAAGTA ATGGTAGTCG TTTCAGAAAG ATATAAATCG TTGGGAAAAG	60
	AAGAAATGAC AMATTAATGT AAATATTTGT TCATGTACAA ATAAATATAA TTTATA	116
	(2) INFORMATION FOR SEQ ID NO: 2764:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:	
45	TTGTTACAGT GGTGTAGCGG ATCGCACGGC CTTCAACTAA GTGGTTCAAT GCTTGATACC	60
	AGTTATGAGT GTTGGTGC	78
	(2) INFORMATION FOR SEQ ID NO: 2765:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2765:	
	ATATATTCGT ATGCACCTTT TGTAAGGCTT TGTAATACGA AAATTATCAC TACAATGATT	60
5	GCTGTAACGA GTAACGACAT ATATGGCACA CCGTTTTTAT INGTTTTACC AA	112
	(2) INFORMATION FOR SEQ ID NO: 2766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:	
	TATTGAAGAT TTTTTCGAAG ATAAAGGTGA CACATATTCA TGTCATGTTT AATATCGTTA	60
20	CCTTACGTAA CCATATAAGA CTGTAACTTG TGTCATATCA TTCGTAGAAC nTTTGGAAAT	120
	GAT	123
25	(2) INFORMATION FOR SEQ ID NO: 2767:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:	
<i>35</i>	GTCCGCGCCA CGGAATGGCC CACGGGACGA TAAGTGAGGG CACCGACGGC CGAACCCAAG	60
	(2) INFORMATION FOR SEQ ID NO: 2768:	
÷	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 10:02001. IIIICQ1	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:	
	GTACGCGGAG CACGAATTCC GCGGATCTGG GAGCATCTCT AGGTAAnTTT	50
50	(2) INFORMATION FOR SEQ ID NO: 2769:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(C) STRANDEDNESS: GOUDIE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:	
5	CTTAGGTAGC TCAGTGTGTT ATTGAGAGGC CTGTTGGCAG GCCCCGGACG ATC	53
	(2) INFORMATION FOR SEQ ID NO: 2770:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:	
	AAATTGATAG CGTGCACAAA CCAGGTCCAT CCACGAACAT GCCAATCCAG CCCAGGAAGT	60
	AATTGCCCG	69
20	(2) INFORMATION FOR SEQ ID NO: 2771:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:	
	ACGATCATCT GGATGGATAT ACAGAACAGT GTGATTGTAC GTGGTGGGGA AA	52
٠	(2) INFORMATION FOR SEQ ID NO: 2772:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:	
45	TTAACAGTAT GATATTATCA CACGTGAATA GGATATGCCA ACACTGGCAT CGTTGGGGAT	60
	AGCGTAATAC	70
	(2) INFORMATION FOR SEQ ID NO: 2773:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:	
_	AACATTGTAT TCGTGATTAA GACTTCGATC GGTTCAGTAT TCGGCAGATC CACATGTGAC	60
5	CATGCTT	67
	(2) INFORMATION FOR SEQ ID NO: 2774:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:	
	CACCCTTGTG ATATCACATT TGTATGTGTT AAGAGGGAGC CCCTTTCCCG ATCAACTGGC	60
20	GATAAAAACA GTTGANAAGT GGGCGGGGT TATTATTTCT GATGACGGCG GGGTTTTTTC	120
	(2) INFORMATION FOR SEQ ID NO: 2775:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:	
	AACCGTTGCA GGTNAAGCTG GGCNCACCAT TCTTCTCTAT TAATGGTTCA	50
35	(2) INFORMATION FOR SEQ ID NO: 2776:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	•
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:	
	CATGIACGGI GICCACACAA GAAGIATITA GGIGGITGIT CCCGGATITA ACCIGGC	57
	(2) INFORMATION FOR SEQ ID NO: 2777:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:	
έ	AACGACCCCG GGTTCCACCG GGGTCCATTA AGCCAAGGGC CAGGGGACCC C	51
5	(2) INFORMATION FOR SEQ ID NO: 2778:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:	
	TTGTTCCGGC CTAAAAAATT TAAATTGAAC CCAAGGGTTG CCTTGGGTTG GGTAATCCAT	60
20	TTTTTGAATA AACCTTTGnC CCTAATGAAT TTTTCCGCCA TTTAAAGGGT GTCCGCCAAT	120
	ccgg	124
	(2) INFORMATION FOR SEQ ID NO: 2779:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:	
	GTAAATTTGG GAATTACCGG AAAATTAAGG AAAGGCCAGT AAGGGGTTTC CAGGCCAA	58
35	(2) INFORMATION FOR SEQ ID NO: 2780:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 371 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(will GROVENGE DECORTORION, GRO ID NO 2700	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:	
	GCACTCCAGC CTGAGCACCA GGGTGAGACC CTGTCTCAAG AACAAAAACA nCAACAnCAA	60
	AAAACTTGTT CAAAACTCAC TTCCTGCAGT AATCTTTCCT TGAACAAACT CACCCTCTAA	120
50	TTCCCACCTG CAATTGTGTG TAGAAATCCA TTCTCGTGTG TAATTTTGGG CTTATATGCA	180
	CACATTGAAA ATCCAAGAGC CAGAAAGAGC TCTAAGGAAT TATCCAGTCC AGCTCTGTGC	240

	AGCCTGGGCT AGGACCCAGA TCTTTCCCAT TTCCCTGTTC CAAAAATTTT nGGCACAGGG	360
	TGGCCACCCT G	37.1
5 .	(2) INFORMATION FOR SEQ ID NO: 2781:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:	
	GGGGTTGCCA AAGGGGTGTT AAATTTAAGT CCGATGAAAA TTAAGHAAAA AAATCCCATT	60
	TTCCCTTCCG GGTCCGTTGT TGGGGCCTTA ATTTCCCGCC AATCCAAGTT TGGTGAATGA	120
20	AATTAATTAC CGT	133
	(2) INFORMATION FOR SEQ ID NO: 2782:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:	
÷	GTTCAAGTTG ACGCTGGATC ATCTGGTACA CACGTATCCT GCATACTATA GATGTCAT	58
35	(2) INFORMATION FOR SEQ ID NO: 2783:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:	
45	GCTAATTATA GGCCGTCAGG CATTACGNGA TCGAATCTGG CAACTCACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2784:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
55		•

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:	
	GCCnCnCTCT GTGACACTGT GTATATACAC CCGCGGGAAT ATCTCCAACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2785:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. `
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:	
	CTTTGTCTGA CATATTGGGG CAGTGATTTT TGGGACGGTT CTACATGTCG AGTACTTTAG	60
	TCAGAGTTGT GAGTAGCGGA CGGGThTACT TGATATACCC TTAATGTGTA T	111
20	(2) INFORMATION FOR SEQ ID NO: 2786:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786:	
30	CATGATGATA CTTGCATGTA CGTTGTACGT GAACGTACAG TTACGTTGTC	. 50
*	(2) INFORMATION FOR SEQ ID NO: 2787:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:	
·	TCAGCAAGTA GTAAGGATAT CAAACTATGA TCTATTTGAT GTTATGCCAT AA	52
45 .	(2) INFORMATION FOR SEQ ID NO: 2788:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	GCATCATGGA ATATTAAAAC AGCTGATATG TTTGAGTAAT GATTGATTGA CGAGATATGC	60
	GGCA	64
5 .	(2) INFORMATION FOR SEQ ID NO: 2789:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:	
15		
	TGAGAGAAGT CACAGTCGCC AGCGGCAAAG AACCCGNNAA GATGTGNGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2790:	
20 .	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:	
30	CAGTGTATGG AATCTTGTTT GAGTGTGAGA GTCAAAGACT TGGTGATTGA ATGGAAAAAT	60
00	TGAA	64
	(2) INFORMATION FOR SEQ ID NO: 2791:	
	The state of the s	•
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:	
	ACAAnGGGTG AAGTTCTCCC ACATGCTGTA TACCGTGGGA TTATTTTTAA	50
45	(2) INFORMATION FOR SEQ ID NO: 2792:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 83 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	

	GAATAAGTGA TATTTCTTAT AAT	83
	·	
5	(2) INFORMATION FOR SEQ ID NO: 2793:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:	
.15	CATATGTCAT CGTACGTAAT CATCGATGAA ATATCAACAT CTCGACTTAA TAGGTCAACA	60
	AGAT	64
		. 54
20	(2) INFORMATION FOR SEQ ID NO: 2794:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2794:	
30	CCCTACTCCG CGCAATAACC GCATTACCAG ATGCGCTTCC ACTGAGGAAC GACGGAT	57
	(2) INFORMATION FOR SEQ ID NO: 2795:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	,
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:	
	AGATAAAGTG TCATCTATAT CCATCTATCA ATATAGATAT GTTTACGGCC GATTTCAATC	60
45	CGCAA	65
	(2) INFORMATION FOR SEQ ID NO: 2796:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:	
	TATACGCCTC ATTACACCCA ATTGGACCCT TTACGTATGG AGTACATTAT AGAATCGA	58
5	(2) INFORMATION FOR SEQ ID NO: 2797:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:	
	NGCTAAGAAT TTATAAGAGG TTTCGGCAGA TATATATACG CAAGTATCTG	50
	(2) INFORMATION FOR SEQ ID NO: 2798:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2798:	
30	AAGCAGTCTT TCACAAAAAG TGAATAATCA CTAGTTCATT AATTTGCATT TGAACCTTCA	60
50	TATAATGCAT ATTACTTAAT GTACAAGCAA AGATGTATTT ACCTATCAAA GAATTTnC	118
	(2) INFORMATION FOR SEQ ID NO: 2799:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:	
•	CCATAGAACC TGTGAATACC TATACATATC ATACTGTGGA ATTCGTTACG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2800:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCAATTCAGA CTGTTATTCT CTCTTCGTGA TAACCCGTGA TGTTTGTCTG C	51
	(2) INFORMATION FOR SEQ ID NO: 2801:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2801:	
15	GGGGGNGCAT ACCGCACCGA AGCATCAGAC GATGTGAGCG ACCTACCTCC	50
	(2) INFORMATION FOR SEQ ID NO: 2802:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2802:	
•	CCGTAGCGCA CATATGACGA GACCAAGGAT AACGTGCAAn GNCATATTGT	50
	(2) INFORMATION FOR SEQ ID NO: 2803:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(b) 101010011 1111cu1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2803:	
40	CACGTCATGA ACGTGCATTC AACACAATCA TTTACGAGAT GGACCAAGAC	50
	(2) INFORMATION FOR SEQ ID NO: 2804:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
*	`(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2804:	
*	TATGGTGTTT ATTTTAGCGC TNGTTGTGCT TTGTCTTCAG CATCTATAAC CTAGTGCGAT	60

	CTATTG	126
	(2) INFORMATION FOR SEQ ID NO: 2805:	,
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:	
	AAAAGCGCAT ATGGTGTTTT TCTCATATCA CTCCAGGACT CAGCAGCTGG AAGGAGTTAA	60
15	GAAGTAATAA GGTGCCACCC TAAATCCA	88
	(2) INFORMATION FOR SEQ ID NO: 2806:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:	
	TGGATCCGGT ACCAAATAGG GACTACCGGG AATGTCCCGG GGGGCCTAAT GCCGAATGGG	60
30	GCAACG	66
	(2) INFORMATION FOR SEQ ID NO: 2807:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topobogi: Timear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:	
	CCCGCTAACG TGGGGAAAGT TTTGAAGTTA AGAAGGAATG GATTCCTAAC GGGGCGGGGT	60
45	CCAAAC	66
	(2) INFORMATION FOR SEQ ID NO: 2808:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2808:	
	ACAAAGCAGT ACTGAACTGG TTTCGTTGGA GCCCGTGTTG CTGTTTATTC ACGGCA	56
5	(2) INFORMATION FOR SEQ ID NO: 2809:	
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809:	
	AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA	60
	TCC	63
20	(2) INFORMATION FOR SEQ ID NO: 2810:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810:	
30	TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG	58
	(2) INFORMATION FOR SEQ ID NO: 2811:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	ϵ	
•••	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811:	
	AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT	58
45	(2) INFORMATION FOR SEQ ID NO: 2812:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CATCATTAAG GCAAAAACTT TCACAAAGTC ATGAGGCGCA AAAGGTATTA TTATAACACA	60
	TCCCGCGTTG GG	72
5	(2) INFORMATION FOR SEQ ID NO: 2813:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:	
	CCATTTAAAG CGGTACGGGG CTTGGTTCAG GAACGTCGTT AGACAAATTC GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2814:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2814:	
	TAGTACCCAA TTTCCAGTCG AACCAGGATG GGACCAGAAG CCAAACCAAC GTT	53
30	(2) INFORMATION FOR SEQ ID NO: 2815:	
35 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:	
	GAAAAAAAGG CCTTGTTTAC CAAAGGGGCC AATTTTTTCG GTTCAAGGTC CAAACCTACC	60
	TT	62
45	(2) INFORMATION FOR SEQ ID NO: 2816:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTGAATGAC GCCGAAATCC CATCTGAATT CATGGGATTT TCCACTTTCA	50
	(2) INFORMATION FOR SEQ ID NO: 2817:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:	
15	CGTTACTAAA GCTACATAGT GCGTCATTTA AGATTATAGC AAGTAGCATA T	51
	(2) INFORMATION FOR SEQ ID NO: 2818:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:	
	CATTCACCAT AATATTCATT GTTCCATTAG CATATCAGGC ATGTCACGTG CACA	54
		24
30	(2) INFORMATION FOR SEQ ID NO: 2819:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:	
40	GTGTATCAAA TGAGCATGTT nCAATGGTTC AnCATGGCGT TTATGGCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2820:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:	
	ACAATTGCGG CTGCTCATTG TGAGCACGAC TTTATCATGG TTGGGTTCAG	50

5	(A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:	
	CAGTAGTACG TAAAAATGAA TCACTTGAAG ATGCGTACGT AGATTTTAAA CGTCAGTTCT	60
	AAAAAGTGGA CAATCCAAGA GACGTAACGG AATTTnCGAA AA	102
15	(2) INFORMATION FOR SEQ ID NO: 2822:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:	
25	GAGTACTTAA TCCGGCACCG TTTACTTCTG GGGGCATCGA CTAAGTGGGG CGGCC	55
	(2) INFORMATION FOR SEQ ID NO: 2823:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:	
	ATTGGTTTCT CATAAACACT TTTCTATGAA TTTGTATGTA TTTGTTTATT AAAATCTCTA	60
40	ATTCTTATGG A	71
•	(2) INFORMATION FOR SEQ ID NO: 2824:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:	
	CCATTGAGTG TGAGTATATC ATCGATCAAT ATGCAACATT TATCAGGTGC ATGTTGCTTA	60

	TGGATAATTG AACA	134
	(2) INFORMATION FOR SEQ ID NO: 2825:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2825:	
15	CCAGAATGAT GAGCTACAGG ATCAGCCCAG ATATGCAGGT AAACGGGCCA ACCATTG	57
	(2) INFORMATION FOR SEQ ID NO: 2826:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:	
	CAATAATGCT GAACAGCAAC GCATCTCATT CTAAAATCGC TCAGAATCAC ATCCCATGCA	60
	CACATAATAA GTGGCACTTA GCTTAAAAT	89
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 2827:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:	
	CGGATTAGTG GTGTAAACTG GGTGACCCAT ACCACACCTC GCGTGTTGTG AAAAAAAGGAC	60
	TTAA	64
45	(2) INFORMATION FOR SEQ ID NO: 2828:	
<i>-</i> 50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	

	TATACAGAAA ACAGCGTGCC GTTATCCATT ATCACATGAC ATATGTAGTC C	51
	(2) INFORMATION FOR SEQ ID NO: 2829:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:	
	GAGATACGGT CTTCGTATAT GATATGTGCA TATTTAGATA GTCATTTATG AGAGAACGTG	60
15	GACGTGAG	68
	(2) INFORMATION FOR SEQ ID NO: 2830:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830:	
	TGATGATTGT TTATGATACG ATATGTAAAT GATAATCATC CAGGAGGTCT AGCATGGT	58
30	(2) INFORMATION FOR SEQ ID NO: 2831:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:	
	CCTAACAAAC ATAATTAAAC CCATAAATGC ATCCAATGCG GTTAAACCAT GAAA	54
	(2) INFORMATION FOR SEQ ID NO: 2832:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:	,

	(2) INFORMATION FOR SEQ ID NO: 2833:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(wi) GEOVERNOT PROGRESSIVE OF THE MARKET	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:	
	GTCTGCTACC CTTTCAGAGC AACATGCTGA GTGTATAATG CCGTGTATAG GGGACAATGC	60
15	CATTCACTA	6.9
	(2) INFORMATION FOR SEQ ID NO: 2834:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2834:	
	AACACCAGCT GGTAAGTATC ACGTTACATT TTGTGTCTTC ATGATTAATA AAAAC	55
	(2) INFORMATION FOR SEQ ID NO: 2835:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35	10, 000 000 000 000 000 000 000 000 000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:	
40	AGAGCTTGGA TGTCGTTCGT AATTGATGCT CTAGCTCCAT GGGGCCCATG	50
	(2) INFORMATION FOR SEQ ID NO: 2836:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:	
	TTTCGTCACT ATTGCTCATG CATAGACATT TGCAATACCG GCAAATGACG ATGGNATATG	60

	TTAATGGTCA ATACAGGG	138
	(2) INFORMATION FOR SEQ ID NO: 2837:	
5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:	
15	GTTGGCAACT TCAGTCGCTA CTTTAACGCA TCTCACAGTC CTCCTCCCAA AGAGAACGTA	60
	T	61
	(2) INFORMATION FOR SEQ ID NO: 2838:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:	
	ACGTGAATCC CGTGAGGCCA ACAGTGATTT GGATAATTAC ATGGATGTTT GACTAATGGT	60
30	CATTCACACC CAGATCAG	78
	(2) INFORMATION FOR SEQ ID NO: 2839:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:	
•	ACTTAAAATC TCCTCTTGCC TAACTTCCAC ATTCTTATCG ATATGAATAC ACCATACGTT	60
45	TTATAGATAA GTTGATGTTG ATGCATATGT	90
40	(2) INFORMATION FOR SEQ ID NO: 2840:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:	
	TATATTAGT CTGTTATACA AGGTGTATCA CAGCGGTAAT ATGCCTCTAC ATGGCCATAT	60
5	G	61
	(2) INFORMATION FOR SEQ ID NO: 2841:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2841:	
	GGGCCCCGGC GGCAGGGAGG AAGGGGGGCAA GGGCGGCGCC AAGACCACGA CCGGCACC	58
20	(2) INFORMATION FOR SEQ ID NO: 2842:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	÷
	(b) 10F0L001. Timedi	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842:	
30	TGTACAGGTG CAGTTAGACC GCCTGACGGA ACGAGACGTG CAATTGCCAG CAACGCACAA	60
	(2) INFORMATION FOR SEQ ID NO: 2843:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:	
	AAACATGTGA AGTGATCGAG GTATGGACGG AGTAATGATC GCACAAGACA TAGCATCCCC	60
45	GT	62
	(2) INFORMATION FOR SEQ ID NO: 2844:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2844:	•
	ACGATTTAGT TTGAATTTCT ATTAGGGTTT GGTGATTCTA CTACTTCTGA TA	52
5	(2) INFORMATION FOR SEQ ID NO: 2845:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
	GATTATCACA ATTATGCAAA GTTGTCTAAT CGTTAGACCA ATTTCTGTTC AAACACCACA	60
	ATC	63
20	(2) INFORMATION FOR SEQ ID NO: 2846:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•	•	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2846: CGTTATATAA GANCGACATG GAAGCATGAT GAAATATTGA ATACATCATA	50
	(2) INFORMATION FOR SEQ ID NO: 2847:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:	
	CCACAGGTGC ATCCGCCTGG TATGGAGCCG GCCAGTCTTC ACTGCTTTCA C	51
45	(2) INFORMATION FOR SEQ ID NO: 2848:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	

	AAAACTGTCC CAAGCTGTTT TTATTTAGAG CAACCAATCC AATTTAAACC CCCCACCATT	60
5	ATTITAAATA ATACCATTCC AGCGAAAGCC CTTTCCAnGG TTTTGGAATA TAA	113
σ,	(2) INFORMATION FOR SEQ ID NO: 2849:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 155 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		` -
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:	
	CATCTGGAAC TTTTTAATTC CAGAAGGGTT CCAGAAGGTT TCGAAATCCC TCCTAATGGG	60
	CTCCATTAAC GGATTTTAAA TTTTTTAATA ATTTTAGGCC AAAAAATTAA TTTCCAGGAA	120
20	AAGTAAGTTT CCAACCCGGG TAAGAAATTA CChAA	155
	(2) INFORMATION FOR SEQ ID NO: 2850:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:	
	CACAAACTAA CATAGAAGGG CCATCATCAG GTGCTATTAA ATATCTACGC TAGATTGTAA	60
	ATCA	64
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2851:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:	
	AATTATTCAT CAATAGCTCT TTACGATTCA CAAATCTAGG TACTTTTCAG ATCT	54
	(2) INFORMATION FOR SEQ ID NO: 2852:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:	
	AAGCCCCTTT AAACTGGGCC TTTAAGGAAC GGTGGCGAAA ATCCCCAAAT TCCGGGCA	. 58
5	(2) INFORMATION FOR SEQ ID NO: 2853:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:	
	AAAGGTTTCC ATTCGGTCCC ATTAAGATTT TTTTGGAAAT TCCATGGAAG GATGGTTGGT	60
	CCTTTAGGCC TGGTAGGTTA TCCTTTTTGn AGGTGGTATC CAG	103
20	(2) INFORMATION FOR SEQ ID NO: 2854:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:	
30	GGCCACGGTC ATTCCTCCAA GCCAACCAGT GGACAAGATG GGTGGAAGGC GCAGG	55
	(2) INFORMATION FOR SEQ ID NO: 2855:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:	
•	TATTTGGCAT TCAAATAACG TAAACGGATT TTGAAGTAAT TTACATAAAG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2856:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:	
÷	ACAATTTGAC AATGACTGGG ATGCTGACAC TTGATATGAA GACAATTGAA GAT	5 3
5	(2) INFORMATION FOR SEQ ID NO: 2857:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:	
	AACTGCGTTA CATGCTTTGC TTTTAACTGA ACCCAGAACA ACGGTTTCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2858:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Toronour. Timour	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858:	
30	CTTTnnTAnC TTCATCTCTA TTATTATTGT CCGAATTACT ACGTGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2859:	,
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859;	
	TCCAGGTCGA ATTTATTGCC AATTAGCCTC CCGGGTTAAA AGGGTGGGTG TCGGGTAAAA	60
	TCGTAC	66
45	(2) INFORMATION FOR SEQ ID NO: 2860:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	GGTATCCAGT CCCCCGGAGG GGTGACAAAC TTCCACGCCC AGTGGGGGGA CTACCGTTTT	60
	GGACCAAAGC CC	72
5	(2) INFORMATION FOR SEQ ID NO: 2861:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861:	
	AGTGTCGAAC AATTAAAGAT ATTGAGTGAC AGGATTGCTT AAGGGCCGGT CGGAACAG	58
	(2) INFORMATION FOR SEQ ID NO: 2862:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:	
30	TTAGCGGTAA ATCCGAAGAA CTAAGAAGAC GTCAAGAAGG GGATATACGC (2) INFORMATION FOR SEO ID NO: 2863:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:	
•	GCAAAANTGA GAGCTCAANC TGCANNAAGC AAATCAACGA AAGATTAGGT	50
45	(2) INFORMATION FOR SEQ ID NO: 2864: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2864:	
<i>55</i>		

,	AACTATTCTG GATTTGTGCA GTGGCTATGG GGATGAGTGC GTTCCCCTCT TTCATGACGC	120
_	AGGCGAACGC CAGCAACGCA ACCACTGATC AATGCTGAGC CAGCTGTAGC CGCCCAGACG	180
<i>5</i>	GAACAAAATC CGCAGTGGGG GCAAGTGATG CCGGGCGTGC ANGGCGCTGA TGNCAGTTCG	240
	TGGCAG	246
10	(2) INFORMATION FOR SEQ ID NO: 2865:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(b) Torollog1. Tilled1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2865:	
20	ACAGATGATA CCTCTTGATC ACTTGCCAGA GATCGTCTAA GTCGTCCTTG	50
	(2) INFORMATION FOR SEQ ID NO: 2866:	 ,
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
`	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2866:	
	AATACCACGC TGACCTTAAT AAGCCATCAT GGGGGAAATC ATGACCGCAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 2867:	
. 40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2867:	
	CAACTIGGTA AGTGGTCGTT TTGGGCCCCA CCCTACCCGT TTGGACCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2868:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:	
	CCCAACCGG TTCCGGGCCT TAATTTTTTm CCTTTTAAAG GAAAAAAAGG AAAAACCGGT	60
5	TAATTCCGGC CCAAAAAnCC CGGAAGTTGG AAACCTTTTT TTAATAAAA TAATGGACCG	120
	TCCCAACCTT TGTTGCCAAA AGGTGGCCTA AAGGTTTAAA AAAAACCGTT AAAATCCATG	180
10	GCCAGGATCC AGCCTAAAAT TGAAACCATT ATAATTGATA AAC	223
10	(2) INFORMATION FOR SEQ ID NO: 2869:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:	
	TGGACCTTTG GTAATATGAA TTGAATGGTG CTTTGTGGAA ATCGGGAATT CGCCTCGTGC	60
	CTTGTA	66
25	(2) INFORMATION FOR SEQ ID NO: 2870:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:	
	AANAGCCANG ATCATGGTAT ATCCATTAAG AGACGAGAAG ATCGATGCCC	50
	(2) INFORMATION FOR SEQ ID NO: 2871:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:	
50	TTATTTGGAC TTACAAGGAG AATAGTCAnT TCTAGGAAAG TGGTGCGAAA GTCACTTACC	60
<i>3</i> 0	AATATACGGG GATTATTCAT CCATCGTCGG TCGGTCATAT GATACGGAAT TAACACGCCA	120
	CTCCG	125

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872:	
	CAACACCTGA CGTGTATAGA ACTCATCTCT TCAATAACGT CGCTGTCAGG TTACGAAGTC	60
	GA	62
15	(2) INFORMATION FOR SEQ ID NO: 2873:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2873:	
25	TATACATTCC ATTTAACACC TTAACACATG CAAGTTACTT CCTCCTCAAG CATC	54
- آ	(2) INFORMATION FOR SEQ ID NO: 2874:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:	
	GCTGAAAGGA GACTTCTGCA GGTGTGATCA CAAACTGCAC ATCTACACAA GCCATT	56
40	(2) INFORMATION FOR SEQ ID NO: 2875:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:	
50	AGCGCGACCG CGAGAAGGA GGGGGAGCCA GAGCAGCAGC AGGCCCCAGG GCGAAACCCC	60
	CAAGAGGAGC GAGNAAGAAG GAGGGAAAGC CCAGCAGGGG CGCCCAGGCC AG	112

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:	
	GNGCGTTNNA NCGGTCGCGT AGAGATGTCG GGTCTGTAGT AGATCTGGGG	50
	(2) INFORMATION FOR SEQ ID NO: 2877:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:	
	ACCTTGACTT TGCAGACGAT GATGCTTTTG GCTGGGATCT TCACCATCTG GCAACTGAAT	60
25	ATGGTTGG	68
	(2) INFORMATION FOR SEQ ID NO: 2878:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:	•
	CTCCACCTGA TGCATGCCCC CATATCAGGA AAATGATAAC CTCGGACACC TTC	53
40	(2) INFORMATION FOR SEQ ID NO: 2879:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:	
	GGGAACTITG ATCTGCCCTT GAAATCCTGA AAAATGTTTG CAAACGGGAA TGATCTTGTG	60
	CCTTGCTTTG AATGA	75

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:	
	AGAGAGGCCG AGATGGCAGA TGAGATTGCC AAGGCTCAGG TCGCTCGGCC TGGTGGCGAC	61
	ACGATCTTCG GGAAGATCAT CCGCAAGAAA TACCAGCCAA AATCATTTTT GAGGATGACC	120
15	GGTGCCTTGC TTTCCATGAC ATTTCCCCTC AAGCACCAAC ACATTTCTG GTGATACCCA	180
	AGAAACATAT ATCCCAGATT TCTGTGGCAG AAGATGATGA TGAAAGTCTT CTTGGACACT	240
	TAATGATTGT TGGCAAGAAA TGTGCTGCGG ATCTGGGCCT GAATAAGGTT ATCGANGGTG	300
20	GTGANTGAAG TTCAGNGGTG GACATCCGTC TATCACGTTC A	341
	(2) INFORMATION FOR SEQ ID NO: 2881:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2881:	
	GCGGTTACTG TGTAATGGCA TTAAATATGA AACGAGCCGA TGGAGCGTTG	50
35	(2) INFORMATION FOR SEQ ID NO: 2882:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:	
45	CTCATCATTT GTAGTTGGAA AGGTTTATGT ACATTTGGAA AACACCGACA CATGACGTAT	. 60
	CTCCATTGCA ATTTACACAA G	81
50	(2) INFORMATION FOR SEQ ID NO: 2883:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) SIRMBBURESS: GOUDTE	. •

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:	
5	TITTITIT TITTITIT TITTITITI TITTITITI TITTIT	60
	TTTTTTTT TTTTTT	77
10	(2) INFORMATION FOR SEQ ID NO: 2884:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884:	
20 .	ACGGTGTGCT TGATGCACTT GGAACTGTGA GTTTGGGTGT GACTTTGCTT TGGCTTGCTT	60
	GCTGAATGIT TTGACTATGC ATTGCGTATA TGACTTGNAG CGCG	104
	(2) INFORMATION FOR SEQ ID NO: 2885:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:	
35	AGCAACGTGT CTGTCAACGT GGTGTCATTG GAAAAGGCGT CATGTATTGn CCGGTGGGAT	60
	TTACGTGTAG TCACACATGT GCCCAATTAT TGTTTTGAGG CCAACTTGAG TAGGTTGATG	120
	GTTATGT	127
40	(2) INFORMATION FOR SEQ ID NO: 2886:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2886:	
	TGAGCGAGTG CTGTGTGAGC GCGAGGTTGT GAGAGTTAGA ACCTTGTGAG C	51
	(2) INFORMATION FOR SEQ ID NO: 2887:	

5	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:	
10	TTGAAACCGC GAACCTGAGT TCTGGTTAAC TACAGTCTGG TATACACATT GAGGGAAACT	60
	TCG	63
	(2) INFORMATION FOR SEQ ID NO: 2888:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. *
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2888:	
25	AGTANCATAC NCAACTATCT CAGCATACAA TATTGGNCAC CTCGCAGCTT	50
	(2) INFORMATION FOR SEQ ID NO: 2889:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:	
	AAANATAATC CCGGTTTTAT CCCCCTACCT AATTAGTGGG AAAAGTACCA ATTGCCAATT	60
40	GGTAAAATAG GTTGCCATAA CGGCCTCCCA AAAGTAAATT CCCTTTTTTG GTTTA	115
	(2) INFORMATION FOR SEQ ID NO: 2890:	•
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:	
	AATCGGTCCG TTATACTCTT CATAATATTG TGGCGCAACC ATTTCAACTT TATCTTTTCT	60
	TATAAATAGC ATCATCGCAA TAHTAAAGAA TAATATCGGA ATGATTAAAG TAACGATAAG	120
<i>55</i>		

(2) INFORMATION FOR SEQ ID NO: 2891:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:	
	AACACAACAA GTTGTTAAAG ATGCATTTTT ATCACAACAT AAATCTATTG GACGTAAAGC	61
15	TCAAGAAGCA TACTTATCAT ATCGTTTAGA ACAAGAGTAT AGTAAAGATG ATATCTTCCA	120
15	AGTATATCTA AACAAAATTT ACTATTCTGA TGGCGTAACA GGTATTAAAG CTGCTGCTAA	186
	GTATTACTT AATAAAGATT TAAAAGATTT AAACTTAGCG GAAGAAGCTT ATTTAGCCGG	24
20	TTTACCTCAG GTTCCAAACA ACTATAATAT TTATGATCAT CCAAAAGCTG CTGAAGATCG	30
	TAAAAnCACT GTTTTATACT TAATGCATTA TCATAAACGC ATTACAGATA AACAGTGGGA	36
•	AGATGCTAAG AAAATCGATT TAAAAGCGAA CTTAGTAAAT	40
25	(2) INFORMATION FOR SEQ ID NO: 2892:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2892: CCTAATTAAA CCTCCATCCA TCCTTTTGAA GGGGGATCTT TAATAAAnCC GGAAAGTTTG	. 6
,	GGGGAAAAAT CCTCCATCCT TTGAAGGGGG GGGCTTTCCA ATGGCCTTTA AGAATGGCCT	12
40	TTTCCAAGCC AACTTTAAT TCCCCCGGT	14
•	(2) INFORMATION FOR SEQ ID NO: 2893:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. *
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:	
	GCCCGAAGTA TTCTTGTAAG TATTATGATA CTCGGTNCTT TTTATGATTT ATGTTAATTT	6

	TTATGTTAGT	130
٠.	(2) INFORMATION FOR SEQ ID NO: 2894:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2894:	
15	GATGAGACCT GAATTGATTG CAACCCAAAT CGGCATATGC AAATTGCATT AAAGTTGGTT	60
	CAACG	65
	(2) INFORMATION FOR SEQ ID NO: 2895:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2895:	
	CGCACAACAC ATTTAGCGAC TCAGATGTCG CGCGAATGGA CCGATATGGC GTGTCTACAC	60
30	ATTGTCATAT TGTACGAATA GATGAGAAAT ThCAAAGACC GA	102
	(2) INFORMATION FOR SEQ ID NO: 2896:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2896:	
	ATTAAGTGAT GGGCTAATGT TTACGCCCCA ACCAAAGGTT TCCAAAGAGC CCTTGTTGGG	60
45	CCTGTGTTG	69
	(2) INFORMATION FOR SEQ ID NO: 2897:	•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:	
	ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT	60
. 5	TGGGAAGGGT ATTGGTTCCC	ВО
	(2) INFORMATION FOR SEQ ID NO: 2898:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:	
	CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA	53
20	(2) INFORMATION FOR SEQ ID NO: 2899:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899: ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A	51
	(2) INFORMATION FOR SEQ ID NO: 2900:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900:	
	AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG	52
45	(2) INFORMATION FOR SEQ ID NO: 2901:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTACTGACA GAGGGACAAG GTGGAAAGGn TGCCAATGTA AGAATACGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2902:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:	
15	TGTCTGGAAT TCAGGTGAAT TGATGCGGAG ATTTAGGTGA TTAAGGAGTG TTGATTATGA	60
	AGATGACCAC TT	72
	(2) INFORMATION FOR SEQ ID NO: 2903:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:	
30	CATGCCAAAG CAGTAGGCAA GCCGCTTAGC AAGCCAAAAA CGTCAGCCCA	50
	(2) INFORMATION FOR SEQ ID NO: 2904:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:	
-	TTGATGTTAC CTGATCGCAA TCTTGACCAC CTGGCAGGGT CTCATTGTTG GGTATCGA	58
45	(2) INFORMATION FOR SEQ ID NO: 2905:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(mi) CECHENGE PROGRESSMENTON, CHO. TO NO. DOOR	
<i>55</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:	

	GCGGTCTAT		69
	(2) INFORMATION FOR SEQ ID NO: 2906:		•
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid		
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:		
15	ATTCCATTAG GTTCAATTAA AAATTAACGG GGTTATGGTT CCGGTAATTC	GGG	53
	(2) INFORMATION FOR SEQ ID NO: 2907:		
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	•	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
25			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:		
	AAAGCTAAGA AAGGAGGATT AGCTGGTAGT GGAGGAATGT TAAGTGAGGC	TGGTGAT	57
30	(2) INFORMATION FOR SEQ ID NO: 2908:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid		
<i>35</i> .	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2908:		
40	GGGAATGGCG CATGAACGTG CACATCAAAT GACACTGCAG GAAATCAATT	AGCACGGATA	60
	TGGCATAAAG ACAATGGTAA AAGTGG		86
45	(2) INFORMATION FOR SEQ ID NO: 2909:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid		
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
		•	
<i>55</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:		

	(2) INFORMATION FOR SEQ ID NO: 2910:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:	
	GAATTTGTTC CGAGGTATCG AGGACTACGC TTATAAGGTG CTTACAGATA CATTTAnCAT	60
15	TAATGGCGTG TGCTGCTGTA TGGGTTATAC TGTTCACAGG TTTAAGAGA	109
	(2) INFORMATION FOR SEQ ID NO: 2911:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:	•
30	TTGTCCCCAT AGGGAGAAAT AATTCCGCCT GGGCAAAACC AAATCCACGA GCTTCTAAGG (2) INFORMATION FOR SEQ ID NO: 2912: (i) SEQUENCE CHARACTERISTICS:	60
35	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:	
	TAGATGTATC CAGCTGACAT TAGCTATTGG TAAGGTAACG GCTTACCAGG CAACG	55
	(2) INFORMATION FOR SEQ ID NO: 2913:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:	
<i>55</i>	GCCATGAGGC CCACCCATCC ATGTTTATGG ATGGTGGATT GGGGAATTAC TTGTTTCAAA	60

	TCA	123
	(2) INFORMATION FOR SEQ ID NO: 2914:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:	
15	ATCCGTAATT CTGGCCTACC AAGGGTTTAG GCCAATGGGC CATTCTTTTA TTTAACCC	58
•	(2) INFORMATION FOR SEQ ID NO: 2915:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:	
	TGGTGCGACA GTGGTAGGCT TTTTACGGTn TGCnGGCGAG AGTTCTGTAG	50
30	(2) INFORMATION FOR SEQ ID NO: 2916:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:	
40	CTGTTACGCT ATGCCCCCCA GTTGTATGTT GAGTGGAATC GTGTTTTTCG ACCTGCCTTT	60
	GCTTTTT	68
45	(2) INFORMATION FOR SEQ ID NO: 2917:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:	
<i>55</i>		

	GGAAA	65
	(2) INFORMATION FOR SEQ ID NO: 2918:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) Torobodi. Timeat	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:	
15	AAATTCCAAT CCTGGGAATG GGATTCCATG GTnTTCGGAA AAATCCGCCA CCCCAAAAAA	60
	ATAAATGGGT CCCTTCCCTT GGAAATATTA CCTTTACCAG G	101
	(2) INFORMATION FOR SEQ ID NO: 2919:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:	1.
30	TAATAAATCC ATGACCACCG TCACGACGAT CTGACTGATA AACTAATGAC ATATGACTGG	60
	TGTACACACC GTATG	75
	(2) INFORMATION FOR SEQ ID NO: 2920:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:	
45	CTTGGATTGA CCATCATTAG TTTTGGTCAC TCTAAGTTGT ACTGTCCGTT GTACAA	56
	(2) INFORMATION FOR SEQ ID NO: 2921:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCTCATTGCT TGTATATTAA TCCCTGAAAT TGACCGTGTA TATCCCGTCG ATCTATCTTG	60
	TCCTG	65
5	(2) INFORMATION FOR SEQ ID NO: 2922:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:	•
	GCAATATTCT AATCTGTATG TTACAGCACA TGGATATAGC ACATCCGGGC	50
	(2) INFORMATION FOR SEQ ID NO: 2923:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:	
30	TGTGATTTAA CAGGATTACA CAGGTGTACC AGCCGATAGT TGATTAAGCT TCTT	54
	(2) INFORMATION FOR SEQ ID NO: 2924:	٠
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:	
	ATCCTGGGAA GTGCTGAAAA ACCACTnCAC TAAAGGCATA GGAnCCACAC	50
45	(2) INFORMATION FOR SEQ ID NO: 2925:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:	

	(2) INFORMATION FOR SEQ ID NO: 2926:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:	•
	TTGGTCACAT TTATTCTCGT GTTGTGCCGT TCTTCTTCAG TACTAAAGAC AAGGTGATTC	60
15	GG .	62
	(2) INFORMATION FOR SEQ ID NO: 2927:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2927:	
	CAAAAGGCTA TCCCACCTGA TTTGCAAAAG GAACTGGACT GCAAGGGAAG TCTCAG	56
30	(2) INFORMATION FOR SEQ ID NO: 2928:	,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:	
40	TGATCTTGCT ATTTAGTTGC GGCTTGGATT CATTTGGCAT GGTTAAGATT AAATTAGATG	60
	CTTCATTCAT TCAAGATTTC TTCATGTTAG CATTCTTTAC GACAATCGGT CTTGGTGCAT	120
	CATTGAAATT ATTTAAATTA GGTGGCAAAG TCTTGCTATT ATACTTTATG TTTTGTGCTA	180
45	TCATTTCAGT CATTCAAAAC ATAGTTGGTG TATCACTAGC AAAAGTATTA AATATTAAAC	240
	CTTTGTTAGG ATTAACAGCA GGTTCCATGT CTATGGAAGG CGGTCATGGT AATGCTGCTG	300
50	CTTATGGTAA GACAATTCAA GATTTAGGTA TTGATTCGGC ACTGACAGCG GCTCTTGCAG	360
	CTGCAACTTT AGGTCTTGTA TTTGGAGGGC TATCGGTGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2929:	•

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:	
10	CTGAACCGAT GGCGCACTTT GCTACGCCAC CTACAGCAGA TCCCANGGGG GGNGAAGCTT	60
	ATACTGAAGC TCTACGTTCA ACATTTTCC ATTGGGGATT CCATGCTTGG GCTGTTTATG	120
	GTGTTGTTGC GTTACGTTTG GCATATTCGC AATTCCGTAA AGGTGAACCA GGTTTATTAT	180
15	CTAGAACTTT ACGTCCTCTT TTAGGTGATA AAGTAGAAGG TCCTATTGGG ATTTTTATTG	240
	ACGITITATC TGTATTTGCG ACAATCGTTG GGGTAGCCGT TTCGTTAGGT ATGGGTGCTC	300
20	TACAAATTAA TGGTGGTTTA CATTACTTGT TCAATGTTCC AAACAATACG TTTGTACAAG	360
20	CGATTATCAT CATTGTTGTT ACTATCTTAT TTATAGCAAG	400
	(2) INFORMATION FOR SEQ ID NO: 2930:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:	
	ATGTAGATCT ATATGATGAC TTTTTACAAG ATCCATCATC TGTACCAGAA GATTTAAAGT	60
3 5	CTTATTCAGC ACAATTAAGA ATGATGACTC AATTGTACCA GCTTTAAAAA GTACAAGTAG	120
	TCANAATAGC GACGGCACAA TTAAGCGTGT CATGCGTTTA ATTGATAATA TTCGCCAATA	180
40	CGGGCATCTT AAAGCCGATA TTTATCCTGT AAATCCTCCA AAAAGGAAAC ATGTACCTAA	240:
40	ATTAGAGATT GAAGACTTTG ATTTAGATCA ACAGACTTTG GAAGGTATAT CAGCAGGAAT	300
	TGTTTCAGAT CACTTTGCCG ACATTTATGA TAATGCCTAT GANGCAATTT TAAGAATGGA	360
45	AAAACGTTAC AAAGGNCCAT TGCATTTGAG TATACCNTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2931:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTTATACAA TCTAGAATCG CATGATAATT TAATGCTACA AATCGATAGT ACAATATATC	60
	TACCGTGAAT AACTGTGCAA ATAGTGACGT TGTAGCCGCC ATACGCATTT CATTTTCATC	120
5	AGTTCTGCCA TAAATCAATG CATAGTCTGC AATTTGAGCC ACTGGATTAT TAGCTGTACT	180
	AGATATAGTT ATGATGGGAA TACTGTAATG TGTGGCCACC TGTGCAATTG ACTGCAATTC	240
10	ACTATGGACT ACCTTGGATT CGTCACAAAA ATCATGCAAT CTCTATCATC ATGCGTCGCA	300
10	AATGTTGACA CAAGTGAAAT GCGTTTCCAT GTAATAACCT GACATTTGAA GCCATACGAG	360
	ATAACTTTGG AAAAAGATCA CCAATAGnCC AACTCGATGG	400
15	(2) INFORMATION FOR SEQ ID NO: 2932:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
:		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2932:	
25	CTTTCAGTAG CAGCTACAAT TGTCTTTAAC ATTTAAGTTT AAAGCTGTAT GTGTCAACCG	60
٠	CAAATACCGA TAGCCATTCA CTAATGAAGT TTCAACTAAT TTAGTACGAT CTGACAATAA	120
30	CTTTTTGTAA TCTTGGGCTG CTTCAGCTGA TACAGCAATA TTTCTCATTG TTTTAACAGC	180
	TTCTTCAGGA TATAAACCAG CAGCAGTTTC ACCAGATAAC ATTACTGCAT CTGTACCATC	240
	ATAGATTGCG TTGGCAACGT CACTAGCTTC TGCACGTGTA GCACGTGGGT TACGTTGCAT	300
3 5	AGAATCTAAC ATTTGTGTAG CTGTAATAAC TGGTTTACCT AATTTGTNAC ATTGTCTGAT	360
	TARATCTTTT TGAACCATTG GGACTTTnTC AG	392
٠	(2) INFORMATION FOR SEQ ID NO: 2933:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2933:	
50	TGACTATGGT ATCGCATGTT GTGTATCAGC GATGACAATT GGTAAACAAA TGCAATTCTT	60
	CGGTGCACGT GCGAACTTAG CTAAAACATT ACTTTACGCT ATCAATGGTG GTAAAGATGA	120
	AAAATCTGGT GCACAAGTTG GTCCAAACTT CGAAGTATTA ACAGCGAGTA TTAGAATATG	180

	ATTAAATGTT ATTCACTACA TGCACGATAA ATACAGCTAT GAACGTAATT GAAATGGCAT	300
	TACATGATAC ANAAATTGTA CGTACAATGG CAACAGGTAT CGCTGGTTTA TCAGTAGCAG	360
. 5	CGGACTCATT ATCTGCATTn AATATGCACA AGTTNAAACC	400
	(2) INFORMATION FOR SEQ ID NO: 2934:	
10 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:	
	AAAATATGCC ATGACTGGCA TGACAAGAAT TGGACGTTAG AAGCATCTCA AACTGGTACG	60
20	TTCAGAGGTC GTAACTnTAA CTTCAATGGT GAAGGATTCT CACGTCAAAC ATTTAAAGTA	120
	AATGCCGTTA GTCAAAAAGA CTACGACAAA TGGGTGAAAG AAGTTAAAGG TAAGANAACG	180
05	TTAGATCAAG ATACATTTGA TAAACAATTA TTACCAAGCA CACCTAATAA AGCTTTAGAA	240
25	TTTAATGGTA CACATATGGC GTTTGTTGAT CCAGCAGCCG ATCCAGAATA CATCTTCTAT	300
	GCATATAAAC GTTTCAATTT CGGATTGAAG GTCCCAAACT TCACTAGTGA GGAAAATATG	360
30	TTTAAGGTGT ATCAGACAAA CCCTTAATAC CTGCTCGTGA	400
	(2) INFORMATION FOR SEQ ID NO: 2935:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:	
	ATGGAGTATA CAACTACTTC GGCATTGGCG CTTACGACAA CAATCCTAAC TACGCAATGA	60
45	CGTTTGCAAG GAATAAAGGT TrGACATCTC CAGCAAAAGC AATCATGGGC GGTGCTAGCT	120
	TCGTAAGAAA GGATTACATC AATAAAGGTC AAAACACATT GTACCGAATT AGATGGAATC	180
	CTAAGAATCC AGCTACCCAC CAATACGCTA CTGCTATAGA GGGTGCCAAC ATCAAGCAAG	240
<i>50</i> ·	TACAATCGCT AAGTTATATA AACAAATCGG CTTAAAAGGT ATCTACTTCA CAAGGGGTAA	300
	ATATAAATAA AGAGGTGTGT AAATGTACCA AATAAAAGAT GTGAAACGAG AATTAAAAAT	360
	GATGGTGTTG ACTTAGGTGA CATTTGGCTG TCGTTTTACA	400
<i>55</i>		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2936:	
10	AAACAATACA AACAAAAGAA AGTCAACCAA GGATGGATTC CTATTTTAAT CCTTGGTTGA	61
	CTCTTATTTT ATTTAAATTG TAGAACCTAG AAAATAAAGT TTAATTAAAA GCACCAATCA	12
15	TTTCTACTTT GAAATCTAAG GTTTCTAAAA TAGCAATGAC TTTCTTTATA TCGGTTGTAA	18
15	TTGCAGAATC AGCCTGAACG AAAAATCGAT ACATACCTAA TTGTGTTTTT AAAGGACGAG	24
	ACTCAATCCA GGGTAAATTA ATATTAAACA AAGCAAATGT ATTAAGCACA CTTGCTAACA	30
20	ACCCGGGTTA TCATGCATTG GTGTAATTAA AAACATCAAT GGTGTCGCAT TTTGATCAAA	36
	TGCTGCTGAT TTTTTATAAC TAAAAACGTG TCAGGTATGT	400
25 30	(2) INFORMATION FOR SEQ ID NO: 2937: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937: TTATTATCTT GATACATTGA GTGTATATTC CATTTTCCAT GAGGCGTTAA ATAACGCATA	60
	CCAAAGCATC TGTACCACCT TTAATTTTCT TATCTCTATT CCCAAATACC ATTGGCGGCA	120
40	ATGTCGGTTT ATATACTGGT AAGCTCTCCC CAAATTGTTG GAAAACTTCG TGATCCACAT	240
	AATAACTITG GACGTCCTGT TAATGTTCTA AAAGGTACTA GACGTTCTAT ATTCGTTGTA AATGGTGGAA TATCGTCGAC CTTGTTTATT TGAACCGGGG AATACTGCTG TCGGTATTAC	300
	TTCTCGTGGT TGTGGAAGTT ATATTTAAAA ACGGAAATTT TCTCAGCAGC GnTTTCGTTA	360
45	GGAAATATCT TTTAACGGGC ATTCCAGTTT GTTCnTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 2938:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2938:	•
	TATCTCTTAA AGCCGGTGAT GGTGGTAATG GTATTACCGC ATACAGAAGA GAAAAATATG	. 60
5	TACCATTIGG TGGACCAGCT GGCGGTGACG GTGGTAAAGG TGCTTCAGTC GTATTTGAAG	120
	TGGATGAAGG TTTAAGAACG TTATTAGATT TTAGATATCA ACGTCATTTT AAAGCAAGCA	180
10	AAGGTGAAAA TGGCCAAAGT AGTAATATGC ATGGTAAAAA TGCGGAAGAT TTAGTATTAA	240
10	AAGTTCCACC TGGTACAATT ATTAAAAATG TTGAAACAGA CGAGGTTTAG CAGATCTTGT	300
	TGAAGATGGT CAAAGAGCTG TAGTAGCGAG GGCGGTCGAG GTGGCCNAGG TAATTCACGT	360
15.	TITGCAACAC CTAGGAAACC CTGGCACCTG GACTTCATGG	400
	(2) INFORMATION FOR SEQ ID NO: 2939:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 384 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:	
	CTAACCTCGA GTTCGTATTA TGCCCACCAC ATGTCTGCTG GCTTGTCGTA AATATTAACA	60
30	GATTTCAAAG TTTGACAAGC TTTTTGGAAA CCTTCTTCTA CTGACATAAT AGGATCTTCA	120
	TGTTCAATAC TTAATACATA ATCATATCCA TTAATAATAA GTTGACTTAT GATATCTGCC	180
	CATACATATG GACTATGTCC TAAGCCAACT GTACGGAATG TCATGCTCTT GTCGCAACGT	240
35	TACCATATGG TTGCATATCA GTTAGACCAT ACATATTTAC ATTTTCTTGG ATTAATATAC	300
	GTATCTTTAG CATGGAAGTG ATGAATTGCA TTTGCTTGGn CTAATATGCG AATCGCAGCC	360
	AATTGGGTCA ATANCNTGGC CACC	384
10	(2) INFORMATION FOR SEQ ID NO: 2940:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:	
50	(YI) SEGUENCE DESCRIPTION: SEG ID NO: 5340:	
	TTTCATATTT TTCTATTAAT GATTCATATT GTAGGGTGAT TGCAATGTCA TCTAAGCCAT	60

120 -

TTACAAGTTT ATTCTTCCAA GTTTCATCAA TTTCAAAATG GAAACGCTTG TCTGGTGATG

	CACTITITIC TAAAACGATA GGCAACATCG CATTITIAGT GCAATTCATA TAAAATATGT	24
·	CACTGAAACT TCCTGCAATA ATAATATGAA AACCATAGTC CTTAAGAGCC CAAGCAGCAT	30
5	GTTCACGACT TGAACCACAT CCAAAATTAT CTCCAGTnAT TAAATnGGAG GCCCCTTTAT	360
	ATTGTGGTTT GTTAGGGTTG AATCAGGGTT TnTnGGAACC	40
10	(2) INFORMATION FOR SEQ ID NO: 2941:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:	
20	ATCATAATCC ATCGTGCGTC CAAGAAGTAC TTGATTATTT AAAGTTTGTA TTGTGAATCC	60
	TGTGCACATT GTTCTCACTC CTCTGTACCT TCATTTACTT TAATCACTTT CAAATAAAGC	120
25	TGTTTCACTT AAACATACTA TAAAAAATCA ATTATACAAG CAATTAATTG ATATTCATTC	180
	TCAATAACTG TGGTATGATA TGTAAGGAAA TCATGACTTA TGTGTGAGTG AACGATCATC	240
	TATACATCCG TTCACTTCAT CTCATGACTT TCTATATTTA ATTTTTACAA GGGAGTGACA	300
30	TCTGTGAATA ACACACAATC TTCACCACGC GTAATATLAT TATTGCGATT ATGTTGTCTG	360
	CATAACATAT GGTTGTTGCA CAATCATTAT TANTATAGGA CCTCCGTTG	409
	(2) INFORMATION FOR SEQ ID NO: 2942:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:	•
45	ATGAAGTGTC AAAAGGTTTA AAAACATCTG AAAGGGGTTC GCACATGTTT TAAACTTTAA	60
	AAATAAAGGT GGATGTCCAA AATGTCGACC AGCAATCAAC TATTATTTAA ACATGGTTTA	120
	TCCACATGAT CATGAAGATG AAAGAGAATC AAGATTTGCT AACGAACGTT ACCATGCGAA	180
<i>50</i>	TATTCAAAAT GATGGTACAT TTTCTGTTAT ACCTCAAATG CGTGGGGGTG TTACAGATGC	240
	AGACCAACTG ATTCGTCTAG GAGAAGTGGC TAAGAAATAT CATGTGCCAC TAGTTAAAGT	300
	GACAGGITCA CAACGIGITG GIITGIAIGG AGIIAAAAAA GAAGAITACC AAATATAIGG	360
	·	

(2) INFORMATION FOR SEQ ID NO: 2943:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:	
	ACCTGGAAAT GTATGTGCCA TCTCTTTAAG CCAATCAGTA TCTTGAATAC CTTTCGTTCC	6 1
15	AACTATGCAA TAATTAATCC CTGCGGCAAA GTAGTCCATG ATTGTGACTT CGTACGAATG	. 12
	CCACCACCTA CTTCAATATC TTTGGTTGTT AATCTCCTCA ATGACTTAAT ATAATCAAAC	180
	TCTCGGGCAT GCTGTGCCTT AGCACTCATC AAGTCGACGA TATGAATACG ATTCACACAT	240
20	TCAAATTGAC TATAGTAAGC AATACTTTCT TCAGCCGAGC GTGGACATTT TTTCTTCACT	300
	ATCATATTA CCCTCTGTTA ACCTCACACT TGTTGACCCA ATCAAATCAA	. 360
	ATAATTCAAT CATTTNATAA ATCCCCCTTG TATTGGCCTG	4:00
25	(2) INFORMATION FOR SEQ ID NO: 2944:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:	
	AACAAAAGGG GTCTATCGTC AATCGTTTCT TGAATAGTGT TGAAAAAATC GGAAATAAAT	60
	TGCCAGATCC TAGCGTCTTA TTCTTTTTAA TGTGTGTGGG CTTAGCCATT ATGACATGGG	120
40	TTATCTCATT ATTTAATGTA TCTGTTAAGC ATCCAGGTAC GCATCAAACC ATTTATATTA	180
	AAAATATAAT TAGCCATGAT GGATTTACGA TGATAATGAA TGATACGATT AAAAATTTCT	240
45	CAGAGTTCCC AGCATTAGGC TTAGTACTAG CAGTGATGAT TGGTATTGGT GTTGCAGAGA	300
40	AAACAGGATA CTTCGATAAG TTAATGATTT CTGTTGTGAA TCGCGCACCA CGTTTCTAAA	360
	TTTACCGCTA TAATATTAAT GGGAATTTTA GGGAGTCAGA	400
50	(2) INFORMATION FOR SEQ ID NO: 2945:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:	
5	ATTTTACAAG TAACGGTGCA TCACCAGATT CTAATTTAAT GTCATGCTCA GCAGCATTTT	61
5	GATAACCCAA CTTTTCAAAG TAGTCAAAAC AATGGTCTAC AACAACCGTA CTATACTCTT	12
	GTGCTTTGGC CGCTCTTCTA CTGCTTGAAC CAAGCCACGA CCTAATTTTT GTCCACGTAA	180
10	TTCAGGATGA ACTGATAAAG AGGCAATCGC CAAACCATAA TACGTCTTAT CATCACTATT	240
	AATTTCTACT TCAATTAATA AAACGTGTCC AACGACATCG TTATTTTCAT TTTTCGCTAT	300
	TACTTCTAAT TCAAAATTAT AGCAAGGAGA TTTTCTTAAA TGGTTTACTT TCGGCACGTG	360
15	CCTGGCCAAC TCGTTTTCAG GATTATCATC CAAACTTTCC	400
	(2) INFORMATION FOR SEQ ID NO: 2946:	
? 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
.•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:	
	GGAAATAATT ACTTGAGCTA GATAAGTTGA CAGCTGTGCA ATTATTTTCA GCAGCTAATT	60
30	GTAAAATTCG CTCTAATCTT GCTGATGAAT GTTCAGGCCC TTGACCCTCA TATGCATGAG	120
	GTAAGAATAA TGTTAATCCT GAACGTTCTC CCCATTTTGA GCGAGAACTG AATAAGAAGT	180
	TGTCAAAAAT CATTTGTGAC ATATTTGGCA AAATCACCAT ATTGTGCTTC CCAAATATTG	240
35	AAGCTTTTTT TGTTTTCCAC ATTATAGCCG TATTCAAAAC CAACTACTGC TGCTTCTGAA	300
	GCGGAGAATT GTGTATATCA AATGTCGCTT TTTGANCAGG AGCATGATGT AAAGGTGTAT	360
10	ATGTTMCACC MGTTTGCTCA TCATGTMACA CGGCAGCCGT	400
	(2) INFORMATION FOR SEQ ID NO: 2947:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2947:	
	ARCTICIONA ARABATCAS ATGASCATAS ATTICTOSTOA TATGASTITA ARTATTATTO	60

	TTCAATTGTG TCACCGATTT TTAATACATC TTCCACTTTT TCAATTCTAT TTTTTGAAAT	180
5	TTGTGAAATG TGAAGCAACG CATCTTTACC TGGGAATAGG CCTACAAACG CACCGTATTT	240
5	TTCAATACGT TTAACAGTGG CTTGGATAAG TTTGACCTAC TTCCGCTTCA CGTGTAATTT	300
	CCTCAATGAT TTCACGAGCA CGATTTATCA TAGCTTGATC AACAGCACCC ATAAAGATAG	360
10	TACCATCCTG GnCCATATCn AATTTAACAC CnGGnTCCTC	400
	(2) INFORMATION FOR SEQ ID NO: 2948:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2948:	
	TTTTTCAAGT TTTGCTGAAG GCTTTACACA AGGCTATTTA ACAATGGATG CCATTGCAGC	60
25	AATTGCTTTT TCAATGATTG TTGTTAATGC AGTAAAACTA ACAGGCATTA CTAAAACAAA	120
•	TCAAATATTC AAACAAACTT TGACTGCTGG TTTAATTGCA GCCGTAGCTT TAATTTTCAT	180
	ATATATTTCA TTAGGTTATA TTGGTAATCA TATGCCAGTA AGTGACATGA CGTTAGATCA	240
30	ATTGAAATCC AAAGATCGAA ACATTGGGAC ATATTTATTA ACGACAATGG CTTCAACAGG	300
	ATTTGGTCAT CCGGAAAATA TTATTGGGCA TCATTGTGGC GCTGGCATGC TAACTACAGC	360
	ATGCGGGCTA TGGTGCAGTT CCTGAATATT CCATAGATCG	400
35	(2) INFORMATION FOR SEQ ID NO: 2949:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:	
	CATGGCTTCA GATTGTTTGA ATTGAATGGA CAATTTTGGn TTCTGTCCAA AATTCTTACA	60
	AAATCTTCTA CCGATAAACT ATCAAGTTCA ACTCTAATCG GAAAAACGAC CTTGCAATTC	120
50	TGGTATCAAG TCACTCGGCT TAGATACATG GNAAGCTCCA GCACCTATAA ACAGCATATG	180
	TTCAGTATTC ACAGTACCAT ATTTGGTTTG AATAACGCTA CCTTCAAGTA TAGGTAAAAT	240
	ATCTCTTTCA ACACCTTCTC TTGAGACATC TTGACCACTA TTATGATTAT TCCTCCCAAC	300

	GTTAGCGCTT TCTTGATCAN TTAGTTCATC CGCATAACTA	400
	(2) INFORMATION FOR SEQ ID NO: 2950:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:	
	TTGACTTTGT AACTAAACTA CTCACTCGAC CGACTCAACT GTTTAAATGT TTCAGATGGT	60
15	TTAACTCTAA ATACTACGTA TAAATCACCA GCAGGTCCTC CATTCACGCC TGGAGAGCCT	120
	TCACCAGCTA ATCTAATTTG TTGTTCATTG TCGACACCTT CAGGTACTTT CACTTCTAAT	180
20	TTAACTGTTT TATTTTCAGT ACCTTTTCCG TGACATGTTG GACAAGCTTC TTCAAATTCT	240
	TGACCACTTC CATTACATTT AGGACAAACT TGTTCAGTAC GAACTCTACC TAAAATTGTG	300
	TTTTGTTCTA CAGCTACATG ACCAGCGCCA TTACAGTAAC TACAAGTCTT TTTACTTGTT	360
25	CCAGGCTTTG CACCATCACC ATGACATGTT TCGCATGTTA	400
	(2) INFORMATION FOR SEO ID NO: 2951:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:	
	CAATGATTTT AAAAGATGCA ATAAAACCAA ACTTAGTACA ATCAATTGAA GGGACACCTG	60
40	CATTAGTTCA TGGTGGACCA TTTGCGAATA TCGCACACGG TTGTAACTCA ATTTTAGCAA	120
	CTGAAACAGC ACGTGATTTA GCTGATATCG TTGTAACGGA AGCTGGATTT GGTTCAGACT	180
	TAGGCGCTGA AAAATTCATG GACATTAAAG CGCGTGAACA GGATTTGATC CGGCAGCTGT	240
45	CGTTGTTGTT GCGACAATTC GTGCGTTAAA AATGCATGGT GGTGTAGCGA AAGATAATTT	300
	AAAAGAAGAA AATGTAGAAG CAGTAAAAAG CAGGAATGGT TAATTTAGAG CGTCATGTTA	360
	ATAATATTAA CAATTCCGTG TAGANCCGGT TGTTGCCATA	400
50	(2) INFORMATION FOR SEQ ID NO: 2952:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT		·	
TCAAGTAGCA AAAGAAACAG GTGCTTCAGT TATCGGTATT GATATTGGTC CACAAGCCGT TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA TCAAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT	5		
TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:	
TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT		TCAAGTAGCA AAAGAAACAG GTGCTTCAGT TATCGGTATT GATATTGGTC CACAAGCCGT	60
ATTCCTTTAA AGTACAGCAT TITAGAAGAA TTATATGATT TAACAAATGA AAATGTCCGT AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC ACTTHATHAA AHAGCCGGCT ATAAAGTHGG TATTACGGAT (2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGHTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 ACTCGAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC AACCAAA GCAĞAATCAA CCTCCATAAA TTTAAAAGCA TAACTGGTC CTACCATTCC 240 TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 40 ACCTGATACA ATGCGTGG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA	120
AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGAACA CAGCAAATTT TTGATATAGC ACTTDATDAA ADAGCCGGCT ATAAAGTDGG TATTACGGAT (2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS:		TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT	180
GAAGATAAGT GGGCCATGT TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC ACTTDATDAA ADAGCCGGCT ATAAAGTDG TATTACGGAT (2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA TTATCCCATG GGDTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 25 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ATTCCTTTAA AGTACAGCAT TTTAGAAGAA TTATATGATT TAACAAATGA AAATGTCCGT	240
ACTTNATNAA ANAGCCGGCT ATAAAGTNGG TATTACGGAT (2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 40 (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG	300
(2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 400 (2) INFORMATION FOR SEQ ID NO: 2954: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC	360
(2) INFORMATION FOR SEQ ID NO: 2953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC 180 ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 40 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 41 SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ACTINATNAA ANAGCCGGCT ATAAAGTNGG TATTACGGAT	400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC 180 ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 40 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(2) INFORMATION FOR SEQ ID NO: 2953:	
(D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2953: CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC 180 ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 40 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 400 (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA 60 TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 120 35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC 180 ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 300 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 400 (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT 35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC 240 TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 40 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 400 (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: Nucleic acid (C) STRANDEDNESS: double	30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:	
ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC TATAAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA	60
ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTATCCCATG GGNTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT	120
TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA 40 ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT 360 AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA 400 (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC	180
ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC	240
ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA (2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA	. 300
(2) INFORMATION FOR SEQ ID NO: 2954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA	400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2954:	
(with appropriate and the second	. 50	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	- -	(a) GDG/WWGD DDGGD7D7704 GTG TT 112	

	AACACTTTAA TGGAGATTTA GCAGGCACTG TTACACTGAC AGCAGGTTTA GGTGGTATGG	120
٠	GTGGTGCGCA ACCGTTAGCA ATTACTATGA ATCATGGGGT AGCAATTTGC GTGGATGTTG	180
5	ATGAAACACG TGTTGATAAG CGAATTGATA CGAAATACTG TGATGTTAAA ACAGCTGATT	240
	TAGATGAAGC ATTAAAATTA GCAGAAGAAGG CGAAAGAACG TGGGAGAAGG ATTATCAATC	300
10	GGGTTAATTT GGAAATGCTG TAGACATCCC ATCCAAGCGG ATTCTAGGAA AAAGGGTTTT	360
	AAAATTGGAC ATTAATTACT GGnCCCAAAC CAAGTGCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 2955:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:	
	TTCAGAATAC GAGCAATGTC AGTTGCAGTG TTTAATAAAT TTTGTTCGCT ATTTTGTAGG	60
?5	CATCTTCTAA AGTGCTAGGT GAAGAGATTA TAGAATAGGC ACTATCAATA CCGAAATCGT	120
	AAACATGTTG ATAATTTTCG CCTAGACTGC CACAAATCGC GATGACAGGA ATATGATATT	180
30	GTTTTGCAGC TAACGCAACG CCTACGGGTG TTTTACCAAA GATGGTCTGA TAATCCATGC	240
	GTCCTTCTCC AGTAATAACG AGGTCTGCAT CTTTAATTCT TTGATGAAAA TCTGTAATGT	300
	CAAAGACGAC ATCAATACCT TTTGTTAAAG TTGTCTCACA AAACGnTAAT AATGCTGCGG	360
35	CCATACCGnC AGTGCACCAG AACCTGGTAT TTGGTTnACG	400
	(2) INFORMATION FOR SEQ ID NO: 2956:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:	
	AATACGTCCT TTATATAATG TTAATAACCA GTTAAACAAT TTCACACCAG TTGGAATACC	60
60	AATCAGCATT GTTGAAATTG AGAAGAATGA GTTGATTAAC GCACCATTAC CCATTGTGAA	120
	GAAATGGTGA ACCCAAACTA AGAAACTAAG GAACGCGATA CCGGCAGTTG CCCATACCAT	180
· i	ACTITGATGT CCGAATAAAC GCTTACGAGC GAATGTCGGG GATAATTTCT GAGTAAATAC	240

	CCAAAGCATT GGGCATACCG CCATGTGGCA CTGTGGAAGA ATGCTGTGTC CAATATTCCG	360
	nTCATTGGTn CATTAATGGC TAACGCTAAC GGTTTAAAGG	400
5	(2) INFORMATION FOR SEQ ID NO: 2957:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:	
	TAGTAATTAA TACGATGTCA GCACCTACTG ATTTTGCTTT GTCTGCTAAT AATCTTAAAT	60
	GTTCCGTGGA CCTGAACCAG AGATAATTAC AAATACATCA TTCGACTTAA TCGCAGGTGT	120
20	CGTTGATTCT CCAACAACAT GTGCCTGTTT GCCGAGCTGA TTTAAGCGCA TTGCAAAACT	180
	ATTCGCCACG AATCCTGGAA CGTCCTTTGC CAGCTACAAA TATATGTTCA GCATGTAGTA	240
	TTTTGGGATG CAAAAGTTGG AAAACTCCAT CCGnTTCAAC ATGTGACAAA GTCATCTTTG	300
25	AATTCATCTA GANTTAATTG ATAGTCACTA ANTTTAGCCA TATTACTTAC CTTCGGTTGC	360
	CAGCGCGACC ATTGTTTCGC AGCTTCTTAC TGGG	394
30	(2) INFORMATION FOR SEQ ID NO: 2958:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:	
40	AATTATTCTA CCTATAATTA AAAATGCTGG CAAAGGTGTA ATGATGATGA GTAATGAACC	60
	TACAACATTT AATATCAATC CTACATAAGT AATTTTGACG CGACCAAATT TATCAGCAAC	120
	ATCACCAGCA CCTACGATAA ACAAACCAGC AAATAAGGCA GATAAGCTAA CAGCGATTAT	180
45	TTATCGTTCC AACGTCACTA CTATATGTTG ATTGTAATGG GACAACAAGA TTAACAAGTG	240
	ACTGCGCGAA TAGCCAAAAG GTAATAACCC CTAAAACGAT ACCCAAAnGC AATCGGTTGT	300
50	TCACCTCTTA AATTGTTTTG ATGTGTCCnT GGATTAGGAT AAGCCTCCTA TGTTTAGGAA	360
	AAACAATTTT TAATATGGTA TATTAAGGAN ACATTTCCTT	400
	(2) INFORMATION FOR SEQ ID NO: 2959:	

	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:	
10	CTTCTTTCTC AACATCAAAG AACATATGGT TTTGTTTCAA ATATTCTTTT ACTAGCGCGA	60
	TATGTTCGTC TGATCTACCA GTTAACTTCA TATATTTAAG AGATTCATCA TCAACTGGGA	120
	AGAATCCGCA AGTTGCTCCA TACTCTGGTG CCATGTTTGC AATTGTAGCA CGGTCTGCTA	180
15	GTGGTAAATG TTGTACACCT GGACCAAAGA ACTCCACAAA TTTACCAACA ACACCTTTTT	240
	TACGTGGCTC TTGAGTTACT CTTAACGCTA AATCAGTTGC TGTTGCGCCT TGTGGTAATG	300
	AATTTACTAG TCGTACACCA TTAACCTCTG GAATTGGGGA AATAGGAGGG TTGTCCAGGC	360
20	ATTCCAGCTT CAGTTTCAAT ACCACCAACA nCCCTCCTAG	400
	(2) INFORMATION FOR SEQ ID NO: 2960:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	1
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:	
	ACGTCAAATG TAATCACAAT CGGAAAGTAT CGTGACAATG CATATATAAC AGGGAGGGTT	60
3 5	TAAATATGAG TTACTAAGGG GATTTTTAGA TTTAGGTGCA CTGTTTATTT TACCGGTTGT	120
	CATATTCTTG CTTGGCCTAT TCTTTAGGCA GAAAATTGGA GCGGCATTTA GGTCTGGTTT	180
	AACAATAGGT GTGGCTTTTG TAGGGATTTT CTTAGTCATC GATTTATTAG TTAAAAATTT	240
40	AGGGCCAGCA GCACAAGCGA TGGTTAAAAA TTTAGGCGTC AnTCTGAATG TGGATTGATG	300
	TAGGTTGGCC AGCAACATCA TCTATCGCTT GGGCATCATC TGTnCGCnCC ATTTTATTAT	360
	TCCACTCGGG ATTCATAGTT	380
45	(2) INFORMATION FOR SEQ ID NO: 2961:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGCCATTGGT CGAACTTACG AAGAATCATT GTTAAAAGCA ATTCGATCAC TTGAGTATGG	60
	TGTGCATCAC TTAGGATTAC CAAATGGTGA AAGCNTCGAT CTTGATTATA TTAAAGAACG	120
5	TATITCACAC CAAGATGATG GACGATTATT TTTCATCGGC GAACAATTAG AAGAGGCACA	180
	ACAGTAGAAG AAATTCATAA TATGACTCAG ATTGATTACT TCTTCTTACA CAAGTTCCAA	1240
10	AACATTATTG ATATTGAGCA TCAATTAAAA GAGCATCAAG GTGATTTAGA ATATCTTAAA	300
•	TATGCNAAAG ATTATGGNTT TAGTGGTAAA ACAATAGCGC ATCGCCTTAA TATGACGG	358
	(2) INFORMATION FOR SEQ ID NO: 2962;	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:	
05	TTTGGGCATC ATTAGGAAAA TTCTTTGAGC AACTTTAGTG TCTACTGGGT AATACAATTT	60
25	TATCACCATG TTTTTCTAAT AAATCTTTTG CGAATCGATT TTATCTTCTT CTAATAATGA	120
	AATACCAATT TCTTTACCTT GCGCTTTTAA GAAAGTATAA GCCATACCTC CGCCGATGAT	180
30	AATTTTATCA GCTATGTTAA CTAAGTTTTT GATGACATTA ATTTTGTCAG ATACTTTTGn	240
	GNCACCTAAA ATAGCAACAA CTGGTTTATG TGGATCGTTA ACTACGCCGC CAATAAACTT	300
	AATTTCTTTA TCCATTAAGA ATCCAGCTGC AGTTTCTAAA TGTGTAGAAA TACCAACATT	360
<i>35</i>	ATTn	364
	(2) INFORMATION FOR SEQ ID NO: 2963:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
*		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:	
	GTTGATTTCT TGAAAGATAA TAAAAAATTC AAAGAAATGG GATCTAGGAT TCCTAAAGGT	60
	GTCTTACTTG TTGGACCTCC AGGTACTGTT AGAAACATTA CTTGCTAGAG CGGTTGCAGG	120
50	TGAAGCTGGC GCACCATTCT TCTCTATTAG TGGTTCAGAC TTTGTAGAGA TGTTTGTTGG	180
	TGTTGGTGCG AGCCGTGTTC GTGACTTATT CGATAATGCT AAGAAAAACG CGCCTTGTAT	240

	TCATGATGAA CGTGGAACAA ACCCTAAACC ANTATTAGTT GAANGGATGG TTTNCGGTGG	360
	AAAATGAAGG TG	372
5	(2) INFORMATION FOR SEQ ID NO: 2964:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:	
	TTAGCAGAAC GCCCACAAAA CCTATCTCTT GCTGTAAAAG AATTTGTGAA nCTGCTGGCT	60
	TAAAACGTGT TGGCATAATT GCAGCTTTAG GAGCTACAGT TATGTTAGGT TTAAGTACAA	120
20 ·	TTAAAAAATT ATGCCGTAAA TAGAGCAAGA CATAAACAAT AATTTAGGAG TCTGGAACAA	180
	TAATCAATGT TCTAGGCTCC TAAATGTTAT ATTGGCAGTT CTGAAACATT TATAAATCTT	240
	TGATTATGAA CTCACAACAG TGCTCTATGC TTTTATAGAT TTTAATAAAT TAGCCATTTC	300
25	AATTGCACTT ACTGCTGCTT CACACCCTTT ATTGCCAGCT TTCGnACCTG CnCCTTCCAC	360
	AGCTGGGCAA TACTGCCAGC CG	382
	(2) INFORMATION FOR SEQ ID NO: 2965:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:	
	GGGAATCATA CAATCATTAC CAATAAACAT GTTACTTATC ACATGAAAGT CGGTGATGAA	60
40	ATCAAAGCAC ATCCTAATGG TTTTTATAAT AACGGTGGTG GACTTTATAA AGTTACTAAG	120
	ATTGTAGATT ATCCTGGTAA AGAAGATATT GCGGTCGTAC AAGTTGAAGA AAAATCAACG	180
45	CAACCAAAAG GTAGAAAATT CAAAGATTTC ACTAGCAAAT TTAATATAGC ATCAGAAGCT	240
	AAAGAAAATG AACCTATATC AGTCATTGGT TATCCAAATC CTAATGGAAA TAAACTACAA	300
	ATGTATGAAT CAACTGGTAA AGTACTATCA GTGAATGGAA ATATAGTGAC ATCTGATGCG	360
50	GTTGTCCAAC CTGGCAGCTC TGGTTCACCT ATATTAAATA	400
	(2) INFORMATION FOR SEC. ID NO. 2966	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	, ,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:	
10	TGGGGATTCA CAGGCTAATA CATTTGACTT TATTAGCTGG TGGCGGTAAC GGCGCTGAAC	60
	TTTAAATGCG ATTCAAAGTG CTGCAATTAT AAGTGCATTC CCATTCTCCT TTGTCGTCAT	120
	ACTCATGATG GTAAGTTTCT ACAAGGATGC GAACCAGGAA CGTAAATTCC TAGGTTTAAC	180
15	ATTGACTCCG AATAAACATC GCTTACAAGA ATATATCAAG AGTCAACAAG AAGTTATGAA	240
	TCTGACATTC TTGAAAAGCG TCAGTCACGT GAAATATAGA GAAAAAAGAT AACTAATAAA	300
	GTTTAGTTAA GTATTTTAAT AACAAGTAGT ATGTCATTCT AGTAGCTAGA ACGGTNATAC	360
20	TACTTGTNTG TTTTTGTGGA AATTGAGTAT TTCAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 2967:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:	
	ACGAGGAATT AGTGAAGTAC AATATTATCG GTGGTTTTGA TTTAGGTGTT GTTTCAGACG	60
35	ACTITAAAAA TCACATGITA ATAGCTGTAA CTGAATTAAG AACAAAAGAT GAAATCGATA	120
33	CATTIGTAGA AAAGGCTGGT GAGTTAAATG ACTAGTAAAT CAAGTCCATT AATTITIGAA	180
	AGATCTCGTG AAGGCAGATA TGCATATTCA TTACCAAAAA GTGATATTAA AACAAATTCT	240
40	GTTGAGTCAT TGTTAGATGA TAAATTTATT CGTAAAAACA AAGCGGAGTT TCCTGnAGTT	300
	GCTGGAACTA GACTTmGTAC GTCATTAATC CTGGACCTTT CCAAATAAAA AATTCCGGmG	360
	GTAGACACCG GGTTTAACCC ATGGGGT	387
45	(2) INFORMATION FOR SEQ ID NO: 2968:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 806 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		•

	ARCHAGIGCA AGIGAGICAA CAICAGAAAG IGCGICAACA TCACICAGIG ACICAACAAG	60
_	TACAAGTAAC TCAGGATCAG CAAGTACGTC AACATCGCTC AGTAACTCAG CAAGCGCAAG	120
5	TGAATCCGAT TTGTCGTCAA CATCTTTAAG TGATTCAACA TCTGCGTCAA TGCAAAGCAG	180
	TGAATCCGAT TCACAAAGCA CATCAGCATC ATTAAGTGAT TCGCTAAGTA CATCAACTTC	240
10	AAACCGCATG TCGACCATTG CAAGTTTATC TACATCGGTA AGTACATCAG AGTCTGGCTC	300
	AACATCAGAA AGTACAAGTG AATCCGATTC AACATCAACA TCATTAAGCG ATTCACAAAG	360
	CACATCAAGA AGTACAAGTG CATCAGGATC AGCAAGTACA TCAACATCAA CAAGTGACTC	420
15	TCGTAGTACA TCAGCTTCAA CTAGTACTTC GATGCGTACA AGTACTAGTG ATTCACAAAG	480
	TATGTCGCTT TCGACAAGTA CATCAACAAG TATGAGTGAT TCAACGTCAT TATCTGATAG	540
	TGTTAGTGAT TCAACATCAG ACTCAACAAG TGCGAGTACA TCTGGTTCGA TGAGTGTGTC	600
20	TATATCGTTA AGTGATTCGA CAAGTACATC AACATCGGCT AGTGAAGTAA TGAGCGCAAG	660
	CATATCTGAT TCACAAAGTA TGTCAGAATC TGTAAATGAT TCAGAAAGTG TAAGTGAATC	720
25	TAATTCTGAA AGTGACTCTA AATCGATGAG TGGCTCAACA AGTGTCAGTG ATTCTGGCTC	780
	ATTGAGCGTC TCAACGTCAT TAAGAA	806
	(2) INFORMATION FOR SEQ ID NO: 2969:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2969:	
40	ACCATCTACT CCGTTAATAG TTACACTGTT ATCATTGGTG TTTGGACTTT CAGCCCTTGC	60
	ATCTAAAAAT ATAAGCTGAT TAAAAATCTGT TATTACTTCT TCCTTGTAAC CATCTATGAT	120
	TTTTACAAAA GATTGCATTA ATTAGTCAAA CCTCCCATAT AATTATTTGC ATTTGCTCTA	180
45.	TGCCCACTIT GITTTGACAA TATTITTTCT AAACCTCTAA TTGCATCATT AGAACCTAAG	240
	GATTATCCTG AGAAGAAACA GTTTGAATCA ACGCATCTGT TAATTNATTN CCTTTATCAC	300
	TTAACATAAC AATTTGGTTC AACAATTTnC AACTGTAGAA GTATCATTAT T	351
50	(2) INFORMATION FOR SEQ ID NO: 2970:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 359 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:	
`.	AGTGCTTGAT GAATTTTGAC CACAAATTCA AATGTATCAG GCGTTTCTTT TATCCATTTC	60
5	AATATATTTC TTTCCGGTTG TATCGCATAG TATGTCGCAT CTAATTCGAC AACCGGAAAA	120
	TGTCCAGCAT ATGTTTTAAG TTTATCGGTT TGGCGTTCTA AATCTTCATA TAATGAATAG	180
10	TGATCACCCC AACCTGTTAA TCCGATGTTT ATCATATATA TCACCAATGT CATCATACCA	240
,,	TATAACTTTT ATCATAATCA TTTCAGCGAA CTTTAGTTTG ATGTTTTTGC TTGATTAAAA	300
	TCTTTTCGGC GAncCTCAGC TTGATGTTTT TCGTTGATTA AATGGTAAAT AGnnACGCA	359
15	(2) INFORMATION FOR SEQ ID NO: 2971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:	
25	CAGACGGTCA AGAATCTTAT ACTTATCAAA ATTTATACTG TGAAGCGAGT CTATTGGCTA	60
	AAAGACTCAA GGCTTATCAA CAATCTCGTG TTGGGCTATA CATAGATAAT TCGATTCAAT	120
30	CGATCATTTT AATACATGCA TGTTGGTTGG CAAATATTGA AATTGCGATG ATTAATACAA	180
	GGTTGACACC TAATGAGATG ACGAATCAGA TGAAGTCAAT CGATGTACAA TTGATTTTT	240
	GTACCTTGCC ACTGGAATTA CAGGGTTTCA AATTGTATCG CTGGGTGATA TTGAATTCGC	300
35	TGGAGGGATA TTACANCGAN CAGTTGTTGG GCAACACAT GGGTATCCAT TTGAACCATC	360
	GGATGNAACT TTGTGCCGAA GGTCGCCTCC ACATNTAATG	400
40	(2) INFORMATION FOR SEQ ID NO: 2972: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 392 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2972:	
50 ·	TCAACCGCTT TACAGCCAAC CGGCGACGCT GACATGGATC GCCTGGCCCA TGCCCACGCC	60
	TTGGCGCCAT CATTATTAAT TGCTGCAGTT ACGGTATCTT TAATTGCGTT AAATAAACCT	120

	AAATCACCGA AATGTTATTC GCTTAACGTT TTGTTGTTGT TATTTTAAAA TAAATTTGAT	240
_	GCAATTAGTT TGTTTATCCG CACAACATCT TATAATGTAC TTAACTGTAT TTTAAAGAGA	300
5	AAAGAAATAC AGTTAGGCAT TCAAAACTGT ATTTAACACA ATTAAGTTGC CTGAATTCGT	360
	ATTTAAGTCT TATTGAACCT TTTTNAGATA An	392
	(2) INFORMATION FOR SEQ ID NO: 2973:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(2) 10102001. IIIIda	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:	
20	ATTGCAATGA TAGCAATCGG AATCGCACCT GCTAAAATAA ACGTTGTGCC ATCCGTCGCA	60
,	TTTGTACCAC GAATCACAAT GTCACCAAGC GTAGGTGCTC CTATAAATGA TCCAACGGCA	120
	ACAACACCTA TCGCAACAAC CAAGGCAATA CGAATGCCAC CGATAATAAC CGAAACAGAT	180
25	AACGGTAATT CAATCATTCG TAGCACTTGA TTGCGTGTCA TTCCCATACC TTTGCCAGCA	240
	TCCTTAATAT TCGCATCAAC ACTAGCTATA CCAGTATAAG TGTTTTTATA ATTGGAAGTA	300
	ACGCATATAA AAACACTGTT AAACTACTGT TCTGAnCTAG CCTGACTACA TTAAATAGTn	360
30	ACATTGCATG ACTGGACTGn TGGATATATT GCATGGATnC	400
	(2) INFORMATION FOR SEQ ID NO: 2974:	
35	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) IOFOLOGI: IIIIeai	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:	
	GTATTCTTTA GGTAATGCAA CTTTTAATCC TTTAATATCT TTACCAATTT CAGATGTAAA	60
45	GTCTACATCA TCAACTGGTG CACTTGTAGA GTCATTAACA TCTGCACCAG AAATAGCTTC	120
	TAATACGATT GCATTATCTT TTACATTTCG AGTCAATGGA CCAATTTGGT CTAATGAAGA	180
50	TGCAAAAGCA ACTAATCCAA ATCGAGATAC ACGACCGTAT GTTGGTTTCA TACCGACAAC	240
	GCCACAATAT GGCAGCCGGT TGTCTAATTG AACCACCTGT GTCTGGAACC TAAGCTAAAT	300
	GGTACTAAGC CAGCTGCAAC TGCTGCTGCA GATTCCACCT GARGGAACCA CCTGGGCACG	360

	(2) INFORMATION FOR SEQ ID NO: 2975:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:	
	GAGATCGCGG GTTCGATTCC CGTCGAGACC GTACAAATGC CTATCCAAGA GATAGTTTTG	60
15	THITGCGTTT AATATTATAT TAATAAAAGA TATATGGACG AATGATAATC ATATTGATTT	120
	ATCTGTTCGT CCATTTTCTT TAAAATGTAT GAACCTCAAG TAACTTAGTG GTTGGATATG	180
	AAAGATAAAC GTMGACAATA AAATCTTTAT TAGACGTACA AACATATGCT ACTGTCAACA	240
20	TATTTCTTCG TTGTGATATG CCACCAGTCC TCCATAACAT CAATTGTTAA AGTAACGAAT	300
	AACGAATAAT GATATTTDAT TTCTGAGCCA TGACGTGCCA CTAGAAGTTG CCCATTATCC	360
,	T	361
25	(2) INFORMATION FOR SEQ ID NO: 2976:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:	
	TGCTGCTTCT GAAGCGGAGT AATTGTGTAT ATCAAATGTC GCTTTTTGAT CAGGAACATG	60
	ATGTAAAGGT GTATATGTTT CACCTGTTTG CTCATCATGT AACACGGCAT GCCTATGACT	120
40	GAATGTACCA CGTTCACTAT CTTGACCAGT TAAGCGAATC GGTGTACCAT CTTGTAAAAT	180
	TGTCGCAAAT GCAAGTnGTT CTGCTTGTGC CCAATCAACT AAACCATCTT CTTTATTAAA	240
45	CGGCTCATGA CGCTTCTCAA GAACTTTGTT TAACTTTTTT CAAAATGTTA AAGCCATCCG	300
	GATATGTTAA CAATGCATCA TTATTTCTTT CAAGTGATCC AAAAGTAAAG GNTTGT	356
	(2) INFORMATION FOR SEQ ID NO: 2977:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:	
	CTTTAGAGCG ACACCTAGTC ACTGCAGCAA GCTATTTCTT TATTTGCTAT GCTATANATC	60
5	GTTAATTACT AGACCTATTG CTGGTAGATT GATGGATGAT AAAAATGAAA ATATTATTGT	120
	CTACCCAGCA TTTATCATGC TTTTCCTTTC ATTTGTATGC TTAATTTCAA GCTATCAAAG	180
	CTGGTTAATA TTACTTGCTG GTGCTTGCCT AGGTTTAGGG TATGGAAATT TATCATCTGC	240
10	AATGCAATCT ATTGCGATAA AAGTCTCACC CCCGATTAAA TATGGTATCG CGACATCTAC	300
•	TTTTTACGTT GGTCTAGATG CCAGGTGTCG GCTTCGGTCC AGCATTCCTT GGGTTAnTTA	360
15 ·	CGCAGnGTTT T	371
	(2) INFORMATION FOR SEQ ID NO: 2978:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 365 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:	
	TTGTAATTTC ATGATTACAC CTCAATTGTT CTTGTTGTTA AAACTCAATA TTTAATTGTC	60
	TGCGCTCAAT AATTTGTTGT TTAAGTTGCT CAATATGATT TGATTGGAAT TCTTCCAATA	120
30	ATGCTTTTGC TATTTCAAAT GCTACGACAT GTTCGCAGAC GATACTTGCT GCAGGAACAG	180
	CACAACTATC AGAACGTTCA ATTGTTGCTT TAAAGTCTTC TTTAGTATTA ATGTCTACTG	240
3 <i>5</i>	AATTTAATGG nTTATATAAC GTTGGAATTG GNTTCATTAC ACCATTACGA TAATTGGCAT	300
	CCATTGACAT ACCGCCTCTA ACCACCTAAG TGATTAGANC ACGATAATAC CAATTCACTA	360
	TATAT	3,65
10	(2) INFORMATION FOR SEQ ID NO: 2979:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:	٠
	TGATTATATA AATCTAACCA GCCAAGTTTC GTCTGCGGTG AGACATTGAC ATTAATTGCT	. 60
	GCAGATAATG ATTTAACAAC ATGTGTGGCA TGTGATTCAT TAACGATGAC AATATCATGT	120

	TGGCGATGGG TAACATTGTT AACATTGCTT CATTTAAAAC GATATCGAAT TGATTGTCAT	240
	CAAAGGGCAA TTTAACAGCA TTCGCTTGTT GAACTTGAAT ATATGATTCA nGACCTGCTG	300
5	CGGAAATGTT TTCCGTGCTT TTTCTAAGCC TTCnTATTAT ATCAACGCCT GANGTGACAC	360
	CANAGTGTGA GCCAGATAAA TAGAGGTGTG CACAGATACA	400
	(2) INFORMATION FOR SEQ ID NO: 2980:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:	
20	TTTCTGCTTT TGATAATCTT TCATCAATGC AAAAGCTACA TTGGACAGTC CTATAATGGA	60
	AATAATGTTT ACAATTGCCA TTAAGCCCAT AAATAAGTCT GCCGTATTCC ATACTGTTTC	120
	TGTTTTTACA ACTGCACCGA CAAAGACAAG TACTACAACA AGACATCTAA AGATAAATAA	180
25	TATTACACGG TTTGTTGATA AAAATTCAAT ATTAGATTGA CCGTAATAGT AATTACCTAC	240
	AACAGATGAA AATGCAAACA GTGDAACGCT TATTGGTTAA GAAAATACCT CCAGCAGAAC	300
	CTAAATGCTC CTTAAGTGCC GATTGGGTAA CTGCAACACC nTGGAGGGCG TTTATCACCA	360
30	AATTINCGTC CCGAATATAG TAAA	384
	(2) INFORMATION FOR SEQ ID NO: 2981:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:	
	AATTCTAACG ATATCACCAT TTTTACAACC ACGTTCTCTA AGCGCATCAT CAATACCCAT	60
45	CGAACGCATT TGACGAGCAA ATCGACGTAC TGCTGGATCA CTGTTAAAGT CAGTCATTTT	120
	AAACATTCTT TCAATAGCAT TACCACTTAC CACATAAGCA CCATCATCAT CTCTTGGAAA	180
	TTGTAAATTT ATCTTGTGAC GGTGTATGTT TATATAATAC TCGGTTAATG CCAACTGACT	240
50	CCTCTTCTTC AACTGTGGAG TCAACATCTT TATATTCTTC TGAATTTATC TGCTTATTGC	300
	ATATGAATAA TTGnnCAATG ATTATCACGC GTTATTGTTG GAAACTGGGA TTAACTGGCA	360

(2) INFORMATION FOR SEQ ID NO: 2982:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982:	
	CCTCAACCGC TTTACAGCCA ACCGGCGAGC GCTGNACATG GATCGCCTGG CCCATGCCCA	60
15	CGCCTTGGGC nCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA	120
	ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT	. 180
	TTHTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTTGTT GTTGTTATTT TAAAATAAAT	240
20	TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA	300
	AGAGAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC	360
	TGAATTCCGT ATTTGAAGTC CTAATGGAA	389
25	(2) INFORMATION FOR SEQ ID NO: 2983:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983:	
	ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT	60
	ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG	120
40	GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT	, 180
	CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT	240
•	CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG	300
45	CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT	360
·	CGnGnTCCAT TACCGCCAC	379
	(2) INFORMATION FOR SEQ ID NO: 2984:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 374 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:	
5	ATGCTGAAAA TATGGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC	60
	ATATTTTCAT ACATTGGGAC CCGAATTGAC TTCAGCATTA CAGCAAATTG ATTATTTTGT	120
	GGCTGGTATT GGCTCTGGCG GTACATTTAC AGGTACGCAC GTTATTTAAA GCAACATCAC	180
10	GTGCAATGTT ATGCCGTTGA GCCAGAAGGG TCCGTGTTAA ATGGAGGGCC AGCTCATGCA	240
	CATGACACTG AAGTATCGGT TCTGAGAAAT GGCCGATATT TTTAGAGAGA CGCTTGTAGA	300
	TGGGnTATTT ACGATTAAGA TCnAGATGCC TTTCCGAATG TCAAAGTTTG CTATAATGAn	360
15	GGTGTAGTAA GCAG	374
	(2) INFORMATION FOR SEQ ID NO: 2985:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985:	
	GGAGCCACCA TTGGAGCANG TTACGGTGGA AAAGATACGG NAAGGTTNGT ATGACTGTAN	60
30	GTCTTGGATA GAGTAACAAA CCTAATTTGT TAACTCTAGG CCCCATATGT CGCAGTACCA	120
	TCTGCATGTG TTGTTACATT GTATGCATTT GTTTTACTTG GCTTCTTGLA TGTCGGGCGA	180
	GCTCCGTATG ACACTTGACC GTTTGCATGT GTTGTTACGT TGTATGCATT TGTTTTGCTT	240
35	GGCTTGTTTT GTGTTGGGCG AGCGCCATAT GATACTTGGC CGTTTCCATG TGTTGTTACG	300
	TTATATGCGT TTGTTTTGCT TGGCTTGTTT TGTGTCGGAC GAGCTCCGTA TGATACTTGG	360
	CCGTTTGCAT GTGTTGTTAC ATTGTATGCA TTCGTTTCGC TTGGCCTCCT GTATGTCGGA	420
40	CGAGCTCCGT ATGATACTTG ACCATTGCAT GGGTGGTACG TING	4,64
	(2) INFORMATION FOR SEQ ID NO: 2986:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

2395

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

	AACTATTATA TTAACATACA ATGTAGGGAT GTGATGCGCG TGAAGTTTAG GGATAAAGAT	120
	AATCGTCAAG TTAATTTGAC ATTTAAAAAG GATAATGAGA TAGCAGATGG CAATCATGTG	180
5	CTAGCTATTC CAACGTTTAA AAATCAATTG CTTTTTACCA AACATAATTT ACGGGGGATT	240
	GAATTTCCTG GTGGTAAAAG GGAACGCGGG GNAAAGTAGT GCTGGAAGCA GTTACACGTG	300
	AATTATATGA AGAAACAGGC GCCAAATTGA AAAATGTTTA TTACATAGCA CAATGTTCC	359
10	(2) INFORMATION FOR SEQ ID NO: 2987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:	
	TAGAATTCTT CTAATGAATG AGCTTCTTTA GAATGATAAC CATAACGAAT TCCGTCAAAA	60
	CGAGAAAGGT TTGACGAAGC TTCTGATGAT GCAATCACGT AATATGATGG AATACCAAAT	120
25	TTAGTATTTG GCAATGATAC TTCCTCAACG ACAGCACCTA AAGATTTTAA AGTTTCTACA	180
	GCGTTTTGAA CTGCTTCTTT TACGTCATCA GCTACACCTT CACCTAAGTA TTCTTTAGGT	240
	AATGCAACTT TTAATCCTTT AATATCTTTT ACCAATTTCA GATGTAAAGT CTACATCATC	300
30	AACTGGTGCA CTTGTAGAGT CATTAACATC TGCACCAGAA ATAGCTTCTT AATACGGTTG	360
	CATTATCTTT TACANTTCGG GTCATGGnCC CATTTTGGTC	400
	(2) INFORMATION FOR SEQ ID NO: 2988:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:	
45	ATTCATTCAT AATTATCAAT CCTTTGTGTT AAATTACTAT ATAAATAGTG TACGAATTTT	60
	CGAAATTTGT GATCATAAGT TTATTCAATG CTAAACAATA AGGTTGAGAC ATAATCGTAT	120
	CTCAACCTTG AAATTATTAT ACGTTGACGT CACTAGTCAT TCAGTTTTCT TAATGCTGCT	180
50	ACAATCTCTT TTTTAGTATC TTGTACTTCA GAAGCTTGCT TAATCACTTT TGCAGGTGTA	240
	CCAGCAACAA CTGCACCAGC TGGTACATCT TGTGTCACAA TCGnGCCACT GGCAACAATA	300

	nGATTATAAC CGTGGAG	377
	(2) INFORMATION FOR SEQ ID NO: 2989:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:	
15	CCAGGNACCT GGACACGCCG GGTCTTATCA TCAATAATAG TAGCATGACA AATCTACTAT	60
	TTTTTCGCTA ATAAGTGGAT GTAATGCTAA TAATGTTGCT GTAGGGAAAC AGCCAGGATT	120
	AGAAATGAGC TTCGTTCCAT TGTTATCAAA CGATTGCCAT TCTGAAATGC TGTAAATAGT	180
20	CATGATTCAA ATCATCTTGT GCCTGCAGCA GTTTCTTTGT AATATGCTTC ATATATTTCA	240
	CGnTTCTTAA TTCTAAATGC GCCAGATAAA TCGATAACAT GAATACCTTT TTCTACTAAG	300
	GGAGGGATAC ATGTTTTACT TACGGGTGCT GGTGTCGCAA AGAAAATTAC ATCAAn	356
25	(2) INFORMATION FOR SEQ ID NO: 2990:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:	
•	TCATTTTCCA AGTGAGACTC TGCTCTTGCT TTGGCTAATT TAGCTCTTTC AACATCAATT	60
	TCTCTTGCAG TTTCTGCAGT CTGAACAATG ATTGAAACTT TATCTTTTCT AACTTCAACA	120
40	AAGCCATCGC TTACAGCAAT ATATTCAGTT CCATCGTGGA AATTTCACTT TTACAAAGCC	180
	TGTTTTTAAA GCAGCTACAG TTGGGAATAT GTCCACTCAT GACACCTATC TCACCAGCTG	240
45	TTGTTTGCAT AACAACGAGT TCAACATTAT CACGATTGTA AACAGAACCA TTAGGAGTGA	300
	CAATATCTAG GTTTAAATGT CCATTATCCA TTCCnCCnGA ATTGGnTGA	349
	(2) INFORMATION FOR SEQ ID NO: 2991:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2991:	
	ATGGCCACGT TCATGCCAAT AGCTGTCGTA GTCGCATTTT CACGTTCTAG TATTGCATTT	60
5	TTTAAATGCG ATGTGTGCTC TACATAACGG CAAATTTTAA GTTTATGAAT CAACATATCA	120
	ATTGCTTCGT TTCGAGACAT GTCGTGGATC AGTAATTATC ATAGTTTGTT GATCAAAAAC	180
10	ATGAGAAGGT TTATTGAGAT GTGAATGTTT CGCGGTGTTA TCTACATTGT CAACCTCTGT	240
	ATCATGTTGT GTAATATCTG TATCATGAAG TTGCGGTTGC GCTGGTGCAT CTACTGCTAT	300
	AACTGGTGTA TTGCGTTTTA ATAATAGTAC AGTAGTMCAT TGTMGACAAG ACTMACCGAC	360
15	TTA	363
	(2) INFORMATION FOR SEQ ID NO: 2992:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:	
	AAGTITATTT TAAAATTCGT AATAAAAATA ATAAACTCAT CGAACGATTT AATGGTCTAG	60
30	GTTTCCATAT CAACTATGAG TACATTAAAT TCAAATTCGA ATCACGTAAC GTAAAAGATC	120
	AAACAATCCC TGAATAAAAC ACCAAGCAAA TACCCTACAG TACATCATTA GCATGTATTG	180
	TGGGTTTTTC TACTTTTGT AAATATTGAn AATTATnAGT AGTTGTTTTT TACTATTAGG	240
35	GCAGAATGCT TTACAATAAC ATGCAAGTGT CAATTAAGGG GAGCACTTGC ATAAATAGTA	300
	TAGGRGAGTG AGTAGTCCTG GCCATTTCCT GGAATTCCTT AATCGGCAC	349
40	(2) INFORMATION FOR SEQ ID NO: 2993:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:	
50	TTTGTGCAAT AAGCGCTTTT TGTTCGTTTG CTTTTGTTGC TAATTCATCT TTCGCAACAT	60
	CTTTAATTGT TGTATCTGCA GTAATACCTT GAATATCAGC AACTGCTTGA TCTTTAATTT	120

	TTGCTTGATT TTGAGTTGTC ACAGCTTGAT CAACATCATT TTTAGCATTG ATTTAACCGC	300
	TGTGCTGGTT GCGGCTTGAA TTGAATCTTC CAGGCTTCGC TGACTACACA TACACAGTGA	360
5	GNGNAATATT TCGGCTGAAC GCGTGCATGT GAANGCTCT	399
	(2) INFORMATION FOR SEQ ID NO: 2994:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:	
	AATGACAGGA ATCGTCGTTG CCTTTACTAA TTGACCAGTT AATTCAAAGT TAGGTCCGGA	60
20	CATTITGCCA TCTTTAGCAA TATCAGTATA TATAATGCCG CCAAGAGGTA TATCCGATAA	120
٠	CCGTCTCACA AACTAAATAA ATTTAACTCT GTGTCCTCTT CCCATCCGTT CACTTTAATA	180
	TCTTCTCCAT AGGCATCAAC AGATAAATAA ATGCGACCTG GAAATGTATG TGCCATCTCT	240
25	TTAAGCCAAT CAGTATCTTG AATACCTTTC GTTCCAACTA TGCAATAATT AATCCCTGCG	, 300
	GCAAAGTAGT CCATGATTTG TGACTT	326
30	(2) INFORMATION FOR SEQ ID NO: 2995:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:	
40	CTAATGCCGA TGAGCAAAAC ACAAGCATTA GAAATTATTA AAAAAGTTAG GTACGTATAC	60
	AACATTGATT TTGATAAACC GAAGTTAGAA ATGTGGATTG ATGTATTAAG TCAAAATGGA	120
•	GATTATCAAC CAACTGTAAA AGCGGTAGAT GTTTATATCA ACAGTAACAA CCCGTACCCG	180
45	CCTAACTTAC CAGCAATCAT GCGTAAGGAA CCTAAAAAAG TATCTATCGA GCCAGTAGAT	
	AACGAAACCG CTACACACCA TGGGAAAATG CAGAATGACC CGAATTGTCA GACAAGGAAA	•
50	ATAGCGCTAG ATAGTTCATG AATAGTTGGC AGATTGGGGC GAACGATGAT ACGNCATTCG	360
	ATTGAAGTCA TATCGTCGTA CTTAACACCG GACGTTnGAA	400
	(2) INFORMATION FOR SEQ ID NO: 2996:	200

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:	
10	GAATGTAAGT GTCCCTTAAG CATAGTGCTC CCACCTTAAA TTTTGTTACA TACTTTCATG	60
•	GAATGTACGA GAAATTACAT CTAATTGTTG TTCACGTGTT AATTTAATGA AGTTAACAGC	120
	GTAACCAGAT ACACGGATGT TAACTGTGGG ATATTCTTCT GGATGTTCCA TTGCATCTAT	180
15	TAATGTTTCA CGGTTAAATA CGTTAATATT TAAGTGGTGA CCACATTGCA TTGCGTAACC	240
	ATCTAACATA CTAGTTAAGT ACGGTTTGAT CTCTGGnTCT TTACCTAATG ATTTGGNACG	300
20	ATACTGATGT ATTGAAATAC CATCCTTACA GCATCGTAAG GGGTCCTAGC CACAGAACTT	360
20	ATGAAGAAAT GCACCTTTTn GGCACnGGCA TGCATGGGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2997:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:	
	ATGATATTAA CCTGTTTACA AGATGGTTGA TACTTGCGCA TGANATTTGA ATCTTCAACA	60
35	CCATATTATT ATGGTACATA CGAAACTGAA AATGAATCCA TAGTTACTGA CAAAGAAAAA	120
	ATCTTAGTAT TAGGCTCTGG ACCAATTCGA ATCGGCCAAG GTGTAGAATT TGACTATGCG	180
40	ACAGTTCACG CCGTTTGGGC AATTCAAAAA GCAGGGTACG AGGCGATAAT TGTGAATAAC	240
40	AATCCAGANA CAGTTTCAAC AGATTCTCAA TTTCTGACAA ATTATACTTT GAACCTTTAA	300
	CTGAnGAGGA TGTGATGAAT ATCATTAATT TTGGA	335
45	(2) INFORMATION FOR SEQ ID NO: 2998:	-
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2998:

	GCAGTAACTA ACTITIGTAC AAAAGGATCA TTTTTATCAA CATAATGTGG TGGTTGGACT	120
		•
_	TTACCTAATT TCACTTCAAA GLATTGTTGA ATCTCATTTG CAAAACGATC CATAGCTTTT	180
<i>5</i>	TCAAATTCAA ATCCTTCTGG GTAGCGTAAL TGATACCGAA AAGACCTGCG TTTTCATTAT	240
	CATATGTAAT AACACCAATG TTAGTTGTCA CGTCACCCAT GGACATCTGT ATGGGAATTT	300
	CATTCCCANC TTTTTCACCA AAATCNGGAA TTGAAATAAG TGAGCGATTA CGAAATGGCG	360
10	ACAAACGCCT GTGGCATTGA TNGAGCAAGA TTNAAGG	397
	(2) INFORMATION FOR SEQ ID NO: 2999:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:	
	AAAGCTGTGT TGGTAAAGAG TTTTGTCGAT TTGGTACGCA ATACACGACA CGACTTGGCA	60
25	TTCGTTTAGA AAAAACATTT GAATACATCG ATACACCTCA TAAATTCAAA ATGGGTGTAT	120
	CAGGCTGCCC AAGAAGTTGT GTTGAATCAG GTGTTAAAGA TTTTGGTATT ATCTCAGTTG	180
	AAAATGGGAT TCCAAATCTA TATCGGTGGT AATGGTGGTA CAGAAGTTGA AAAAGCTGAA	240
30	TTTTTAACAA CTGTAGAAAC AGAAGATGAA GTAATCAAAT TATGTGGTGC TTTGATGCAA	300
	TATTGANCGC GAAACAGGTA TATATGCNGG AAAGAACCAG CGCCCAGGTT AAGAAGACCT	360
35	GGATTTGAAA ATGTMAAAAG AAGTCCTTAC CTGGGCCCCG	400
	(2) INFORMATION FOR SEQ ID NO: 3000:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:	
	AACGGTAGTA TTACAGAAAG CTCTACTTAT GGTGATAATG ATACACCAGC GCCACCAACT	60
	GACGAATTAG GTGGTAGTTG GACACTATGG AAAAATTTAG CGCGACAAAG TCCTGAATFT	120
50 _.	GGTAATCCTG ATAAGTTTTG CCAAAATATT CCTAAAAAAA GTTGGTTTGT TTCAGCAACT	180
	TCTACAACAA ACAATAAAGA GATTATCGAT ACAATAGAAA GTATTTGTAA ACGTGACCCA	240

,	AGTTTTACAA TCAATCGTCA GCMACAGTTT AAAGACCAAC CTGFAAATGA AATATCTACA	360
	TGGATTTATG CCTTATATYC AGATGTAAAC GGCGATTATA TTAAAAAGCC AATTACAGAA	420
5 ·	TGTAGTGGTA ATGAAATATG CCAAGNATGG CTGTATCNCT TNGGTGTATC AACTGACAAG	480
	ATTGAAGACT TAGCAAAACA TGCGTC	506
10	(2) INFORMATION FOR SEQ ID NO: 3001:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:	
20	ATTGATGGCA TCGAAAAACT TTAATAAGAC AACAAGTTGA TGAGATATAT GTATATAGGT	60
	TTGGCATGGA TTTCGATTGC AGTTAATTAG AATAGCTCAA TGCTATAAAT GTAAGTAGTT	120
`	GATATGAAGA AACTAATGAA CTAAATGCAA GTATTGTCTA AAACAATCAT TTTATTGAAA	180
25	TTTAGTAGAG CTGAAATTAA TATAACGTCG TTAATTGAAT AACGCTTATG TTATAAGAGC	240
	ACTCATACCA DACCATAATC ATCTATAGDT ATAACAATTC ACGTATAAGG GGCTGTGTTT	300
30	GGCATAGCCC TTAGGTATAC ACCTAATTCC CATTAAAATA GTAGGGGTTT AAA	353
00	(2) INFORMATION FOR SEQ ID NO: 3002:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:	
	CAACAAAATG TCTATATGGT AAGTGGTAAA ACGAAAAATG ATGAAGACTA TTCATCAACT	60
	ATTTTATATA ACAACGAAAA AGAATTACAA AAAATTACTG ATGCTGCTAA AAAGCAAAAC	120
45	GGTGTAAAAT TAACGATTAA AGAAGAAGAA AAACAAAGTG TCTTTGTGAG TATACTTTCA	180
	ACATTAATTC CAGTTGTAGT CATAGCGTTA TTATTTCTTC TCTTCCTAAG CCAAGCACAA	240
50	GGTGGCGGTA GTGGCGGTCG TATGATGAAC TTTGGTAAAT CTAAAGCAAA AATGTACGGT	300
	GATDAATAAA CGTCGTGTTC GTTTCTCTGA TGTAGCCAGG GGCCAGATGD AGGAAAACCA	360
	AGGNTTAATT GGAAATTGTT GGTTTCTTGG AAAGGTAATG	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:	
10	ATAACATCGG CACAGCAGCT AAAATAACCA TACCCAAAAT GANTGTATCT TTAAACGTGC	60
	ACCGTAAAGN CTTCCGACTA GCCATGTATA AGCTTTGGCA GCAGATAATT GCTTCGTTGT	120
15	AATGAGTAAT CCTTGGACAA GCGCAATAAA CAACGTTTGC ATCGAAATAC CGATGATTAT	180
	GAGTGTTGTC GGGCGTATTT GTCCTTTCGT TTGAAACACT AATAGTATCA TCATTGCAAC	240
	TGCGCCACCT AATACTGCAA ATAGTGGAGT AAATGTATTG TTAAAGGCTG AAAATGCAAT	300
20	AAAGACAACA GCACTTAAGC TAGCACCACC TGTGATACCG CTAATATCAG GTGAGGCCAA	360
	TGGnnTTTTT TTATACATTT TGGCAACATT TAACCACTTC	400
	(2) INFORMATION FOR SEQ ID NO: 3004:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:	
35	CTAATAACAA ATGCGATGAT GATTAATACT AATTTACCTG CTGCTAATAC AGAATCTCCA	60
	AGGAATGAGA AGAATGGTTG ACGTTCAACT TCATTGTTTT TAAGACTGTA GATAATATCT	120
	TCTTTCTCTT CAACACTTAC TGGATTCAAC AAGCATGACA CAATAATCGC GTTAACGGAT	180
40	ATTTAGTGGA ATTGCCGTTA GTACCAGTTC TCCTGGTACC ATTTGTACAT ACGCACCTAC	240
	AATAGCTCCC GATACAGAGC TCCATTGACA TCATTGCGAT TGTTAATACA CGCATTTCAT	300
	ThCAGACGTT TTAGTTGCTC ACTTGGATAC GGGCTAANGC TThCGTGAAT TGCC	354
45	(2) INFORMATION FOR SEQ ID NO: 3005:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•

GGTCAGCTTA	TTGAACAAGG	GACACGTGAA	TCAGTCTTGC	ATCATCCAGA	ACATGTTTAT	6
ACGAGATTTA	TTATCAACGA	AGAAGAAGAT	TAATGATCAT	TTTAAACATG	TGATGAGGGG	12
TGATGTACAT	GATTAAAATT	AAAGATGTTG	AAAAGTCATA	TCAAAGCGCA	CATGTTTTTA	18
AGCGTCGTCG	AACACCTATC	GTGAAAGGTG	TGTCATTTGA	GTGTCCAATC	GGTGCGACGA	24
TTGCGATTAT	CGGAGAAAGT	GGTACGGnTA	AATCGACGTT	TGAGTCCTAT	GATATTAGGT	30
ATTGAGGAAC	CGGATAAAGG	TTGTGTACCC	TTAAATGATC	CACCGATGCn	TAAGAGGAAG	360
TGAGCCGCCA	CCnATTGG					378

(2) INFORMATION FOR SEQ ID NO: 3006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1785 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

6	TTAGGCGGTT	TAAAGCCCCC	TATTGGGCCT	TATCCGGAAT	GCCAAGCCTT	ACnTTAGTTG
12	ACTGGAAAAC	GTCATTGGAA	ACCGTGGAGG	CCCCGGCTCA	GATGTGAAAg	TTTTAAGTCT
18	AGAGATATGG	TGAAATGCGC	TGTGTAGCGG	TGGAATTCCA	AAGAGGAAAG	TTGAGTGCAG
24	TGCGAAAGCG	GACGCTGATG	GTCTGTAACT	CGACTTTCTG	GTGGCGAAGG	AGGAACACCA
30	AGTGCTAAGT	GTAAACGATG	AGTCCACGCC	ATACCCTGGT	ACAGGATTAG	TGGGGATCAA
360	GCCTGGGGAG	TAAGCACTCC	AnTAACGCAT	TAGTGCTGCC	TTCCGCCCCT	GTTAGGGGGT
420	GGTGGAGCAT	CCGCACAAGC	TGACGGGGaC	TCAAAGGAAT	AGGTTGAAAC	TACGACCGCA
486	TTGACAACTC	TTGACATCCT	TTACCAAATC	GCGAAGAACC	TCGAAGCAAC	GTGGTTTAAT
540	TGTCGTCAGC	GGTGCATGGT	AGTGACAGGT	CGGGGGACAA	GCCCTTncTT	TAGAGATAGA
600	CTTAGTTGCC	AACCCTTAAG	CAACGAGCGC	TTAAGTCCCG	AGATGTTGGG	TCGTGTCGTG
660	GGTGGGGATG	ACCGGAGGAA	CCGGTGACAA	AAGTTGACTG	TGGGCACTCT	ATCATTAAGT
. 720	GGACAATACA	GTGCTACAAT	GGCTACACAC	TTATGATTTG	ATCATGCCCC	ACGTCAAATC
780	TTCGGATTGT	TTGTTCTCAG	TCCCATAAAG	GTCAAGCAAA	AAACCGCGAG	AAGGGCAGCG
840	GCATGCTACG	TCGTAGATCA	TCGCTAGTAA	GAAGCTGGAA	TCGACTACAT	AGTCTGCAAC
900	TTGTAACACC	CCACGAGAGT	GCCCGTCACA	TGTACACACC	TCCCGGGTCT	GTGAATACGT
960	ATGATTGGGG	GGTGGGACAA	AGCCGTCGAA	TTTAGGAGCT	GGAGTAACCT	CGAAGCCGGT

55

45

10

15

20

25

30

						•	
	TATATTCGGA	ACATCTTCTT	CAGAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	1080
	GAATGTTTAT	TTAACATTCA	AAAAAATGGG	CCTATAGCTĆ	AGCTGGTTAG	AGCGCACGCC	1140
5	TGATAAGCGT	GAGGTCGGTG	GTTCGAGTCC	ACTTAGGCCC	ACCATTATTT	GTACATTGAA	1200
	AACTAGATAA	GTAAGTAAAA	TATAGATTTT	ACCAAGCAAA	ACCGAGTGAA	TAAAGAGTTT	1260
	TAAATAAGCT	TGAATTCATA	AGAAATAATC	GCTAGTGTTC	GAAAGAACAC	TCACAAGATT	1320
10	AATAACGCGT	TTAAATCTTT	TTATAAAAGA	AAACGTTTAG	CAGACAATGA	GTTAAATTAT	1380
	TTTAAAGCAG	AGTTTACTTA	TGTAAATGAG	CATTTAAAAT	AATGAAAACG	AAGCCGTATG	1440
15	TGAGCGTTTG	ACTTATAAGn	ATGNNNGATA	TGTTGAATAT	CCATATCTAA	AGCTAGATCT	1500
	AAACTTTGTT	CAAAATCTTC	AATCGTCTGT	TTCGGTAAAT	GATACATTAA	ATCTAAACTG	1560
	ATTGATTTAA	TACCTGCGTT	TTTAGCATTT	AACACCGAAG	TGTAAATATC	TTCAGTATTG	1620
20 .	TGCGTTCTAC	CTAAAACAGA	CAATAACTCC	GGCTTGAATG	TTTGAACGCC	CATTGAAATC	1680
	CTTTTTACTC	CATATTTCTC	TAATAGTTGG	ACTTTCTCTT	TAGTTAACTC	ATCAGGATTT	1740
	GCTTCAAATG	TATACTCGCC	TGTGATTGTA	AACGTATCAC	GTATT		1785
25 .	(2) INFORMA	ATION FOR SE	Q ID NO: 30	007:			
		EQUENCE CHAP					
		(A) LENGTH: (B) TYPE: nu		ilrs			
30		(C) STRANDER		le			
	((D) TOPOLOGY	: linear				
35	(xi) S	SEQUENCE DES	CRIPTION: S	SEQ ID NO: 3	3007:		
	TGCAAAAAAC	ACAATAACGA	TAAATGTTCC	CATTGATCCT	ACAGCATCGC	GAACATTTTA	60
	CCTAAGTCTT	TTGTATTTTT	AATTTCTTTG	CTTAAAATCC	CATAAACTAA	TCCAGGTACT	120
10	AAAAATACGA	CAAGAATAAT	TAATCCGACA	CCGTTAATTA	ATGGCGATCG	TCTAGTAAGC	180
	TGCCTGTTTT	AGCATTTCTT	AAAAAGCTAT	GTCAGGAATG	GCTGTAATAA	TAAAAAT	240

AATTGNGCTA TGAACTGATA TTTGCCATTT TAAAANATGT GCTCTTTGTC AGAATATGTG

AGATGINCTC ATGGCATCAT GCATTAAACT GCATCATATT TTCCTAATCT AGGATAATGA

300

(2) INFORMATION FOR SEQ ID NO: 3008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

55

45

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:	
	TTGCCTTCAA ACACATACTT GTAGTCGGAT GATCACCTGT TCCAAAAGnC ATACCTGGGT	60
5	CGAGCTCAAT GCAAAGCTCT TCATCCGCTT CTTTAGCATA TGTTTCCCAA CTAGGAACTA	120
•	TTGTGAACTT CTTCGACGCT CGGGAATGGA TGGAAATAGT TTTTCCATTC ATTTTCCCAA	180
	TCCGTCTCTG CAATAATTTG CTCACTGAAT TGAACGTTAT GTTGATCAAG TTCATCTAAA	240
10	TTTAATAACT CATCTTTGAA TTTGCTGTCG CAACTGTATC ATCATAAGTG CATTTCAGTA	300
	AAATAGGCTT nGCAAnCTTA CTCCCTTATC TGGGATAAAG CCTCGGTTTT	
		350
15	(2) INFORMATION FOR SEQ ID NO: 3009: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 383 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	,
20	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3009:	
25	TCTTATATCA CCAGGAATTA ACACTGCCTT TTGACCACTT TCTTCAATCA CTTGGCGTAC	60
	TTCTTGTGCA TCTTGTTCTT CACTCGGAAG ATAGTTAATC GCTACATCTG CACCTTCTTT	120
30	AGCATACGCA ATTGCTGCTG CACGCCCTAT TGCTGAGTCA CCACCTGTGA CTAALATTTT	180
30	ATAGCCTTGT AAGCGTTGAT GACCTTGGTA AGACGTTTCG CCACAATCGG GTGCTGGCGT	240
	CATTTCAGAT TGTAAACCCG GTACCTCTTG TTCTTGTTTT TCaTAATCCG TTGTTTTAAA	300
35	TTTTGTTCna GGaTCTkGAG CkGCCAtTTT TtGACAyCtC CGTATnCGCT TAATGGGTAT	360
	CATTTACCCC AATCTTCCTA AGG	383
	(2) INFORMATION FOR SEQ ID NO: 3010:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:	
<i></i> 0	TAATTCAACG GGAATTTTCC CTTTGAAGTT AACATAACGG TAGGCTGCTT TAACAGCTTC	60
50	ATCATCGGGC GCTTCGACAT CTTCTAATTC ATATGCAATG CCCAATGTTT TCCACTTATG	120
	AACACCTAAC TGATGATATG GCAGAATTTC AAACTTTTCG ACGTTATCAA GAGAATTAAT	180

	TGTCGAATCC ATACCAGGTG GTTTCATATC TGACAGTTTG CGCGCGAAGT TAAAGGATGT	300
	GTGTATTAGG GCTTTCCCGG TCCATCCAAA TANGGTTGGT CCATTAATCC ATAAGGTTTT	360
5	ANAATCNAAA TAATAATCCA GTCCGGTA	388
	(2) INFORMATION FOR SEQ ID NO: 3011:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:	
	ACTGCTGTAA CGTCAGTTGA TCTTTTCATT CTTGGTTTAA TTTCTGAGAC GTTACTTGGT	60
20	TGnGCnAngC CACCAATTGC CATACCGACA GATTGGAAGA ACAATGCATC AGTTCCACCA	120
	ACACCAAAGA TGTCACCAAG TACAACGAAA CCTACATATC CAACTGTAGA TACAATTAAA	180
	ATACCCATTG CTTTTTTAAA TTCAGGATTA TCTGATTGAC GTnCATTTTT AGCTTTAAGT	240
25	GAAGTAAGTG CTACACCAGT AACTAATAAT ATCATGGCGA TTAAACCAAA GATAATTTGA	. 300
	GTCATTGAAG ACCATTCACC TAAAAAGATA ACGCTGGAAT AATGGTGTAC CCAACTAATT	360
	GGCATACCTG GTAGGAAACT GGGCATAGGT ATTTGGATAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3012:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:	
	TTATCGGATT CGTTAATACT GGCGGTTTAC GCAATAGTTT AGATGTAGAT GATAACAATG	60
	TGCCTATTAA ATTTAAAGAA GAGTTCGAAC CTAGAAAGTT TGTTTTCACT AACGGCGAAA	120
45	TTAAATACAA TAGCAATTTC GAAAAAGAAG ACGTACCGAA TGCATCAAAC CAACAAAGTG	180
	CGTCAGATTT AAGTGATGAG GAACTTCGCG GAATGGTTGC GAGTATGCAA ATGCAGGTGG	240
<i>E</i> 0	CACAGTAAAC GTATTAACAA TGGGATTAGC TCAACCAAAC GCTATGTTAA CACCACAGTT	300
50	GACTGACTGG AAACTACCAA ACCAGTACTG AGGGGNCGTT AATAATGAGT GTTTCCACTT	360
	AAGCATAAAC TTTTGTTGGT CTTAAACGGC ATTAGTGTCG	400

(i) SEQUENCE CHARACTERISTICS:

AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA 20 CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGNAATAA TGGGTTGNCC TAAGTAATGG CCGACCAAGG TCCTTTCCAN ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGCTTAAA TCACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 TTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAAATGTGT TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36	5	(A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC 12 TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT 15 GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA 20 CAGGAGTAAT GGTTTGCCAT ATGGATGGCC TTGGAAATAA TGGGTTGACC TAAGTAATGG CCGACCAAGG TCCTTTCCAA ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: 25 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC ATTGATATTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 40 TTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACCACAT 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:	•
TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGAT ATGATATCCG TGATCGATTT GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGAAATAA TGGGTTGACC TAAGTAATGG CCGACCAAGG TCCTTTCCAA ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC ATTGATATTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG 12 ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 40 TTTTTTTAGTG AAAAAGTTC GGAAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 36 CACTCATACT AGTTGCACATT GGAAAAAGAT ACAATGACAT CCTAACGCAG 37 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC	6
GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA 20 CAGGAGTAAT GGTTTGCAT ATGGATGGCC TTGGAAATAA TGGGTTGACC TAAGTAATGG CCGACCAAGG TCCTTTCCAA ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPP: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC ATTGATATTT TGTGCCTCTT GTGTTTCAGC TTCAGCTTAAA TCACTGCTTT CAAGTAATGG 12 ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 40 TTTTTTTGGG AAAAAGTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 17 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACCAG CACTCATACT AGTTGCACAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPP: nucleic acid (C) STRANDEDNESS: double		AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC	12
CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGAAATAA TGGGTTGACC TAAGTAATGG CCGACCAAGG TCCTTTCCAA ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACCGTT CTAACCATTC GTAATAACA TGTGTATGAT CAAGCTGAGC ATTGATATTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA ATTGTTAATTTT TGTGCCTCTT GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAAATGTGT TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCACAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCCG (2) INFORMATION FOR SEQ ID NO: 3015: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT	18
CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGNAATAA TGGGTTGNCC TAAGTAATGG CCGACCAAGG TCCTTTCCAN ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (i) SEQUENCE CHARACTERISTICS:		GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA	24
CCGACCAAGG TCCTTTCCAN ATCCACCAA (2) INFORMATION FOR SEQ ID NO: 3014: (i) SEQUENCE CHARACTERISTICS:	3	CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA	30
(2) INFORMATION FOR SEQ ID NO: 3014: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC ATTGAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG 12 ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 TTTTTTTTTTTGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGNAATAA TGGGTTGNCC TAAGTAATGG	36
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC ATTGATATTTT TGTGCCTCTT GTGTTTCAGC TTCAGCTTAAA TGACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA ATTGTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT ATTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CCGACCAAGG TCCTTTCCAn ATCCACCAA	389
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG 12 ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 TTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 3014:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014: AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC 6 TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG 12 ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 TTTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 30 CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG 40 (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	٠.
AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 40 TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 30 CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30		•
TTTAATTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 TTTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 30 CACTCATACT nGTTGCnCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:	
ATTGATATT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA 18 40 TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 30 CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG 40 (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC	60
TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT 24 TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TEACTGCTTT CAAGTAATGG	120
TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG 30 CACTCATACT nGTTGCnCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 36 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG 40 (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA	180
CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT 45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT	· 240
45 GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG (2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG	300
(2) INFORMATION FOR SEQ ID NO: 3015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CACTCATACT nGTTGCnCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT	360
(i) SEQUENCE CHARACTERISTICS: 50 (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG	400
(A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 3015:	
	50	(A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:	
	ncctatctct ggtcgagagt ctttgagctg aaaaatgtga cacacaaaat tgcaatggna	60
5	TCAACAAATG TTTCCCATTG TGGATGGTCT TGACTAAGTA TTTGGTGTTC AACTTGGTGA	120
	TITGCCATGA CTAATACCAT GTCATTTGTA CTTGTATCGC CATCAACAGT AATCATATTA	180
	AATGTATGGT CAGTCGAAGA TTTTAATAAT TGATGAAGTG TATTCGATTC AATCGATGCA	240
10	TCGGTTGTTA TAAAAGCAAG CATGGTAGCC ATATTTGGGT GAATCATACC TGAACCTTTG	300
	GTGCTACCAC CAATTGTAAC GGTTTACCAT CGATTTTAGT GATACAGCGA TATGTTTTGT	360
45	ACAGGTATCA GTGTTAAAA	379
15	(2) INFORMATION FOR SEQ ID NO: 3016:	
	(i) SEQUENCE CHARACTERISTICS:	•
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:	
	CATATAAATT GCTAACGTGC CACCATTCAC TAAGGAATTG ACATCCACTT CATTTTCTTC	60
	TGAATCTTTA AAGTGACCTG TAGAAAATGT CACACTTTTA GCAACTGTAC GCATTGTCAA	120
30	ACCTGTCTGC ATAGTAGCAA CTGCTGCGCT CGCTGATGTC ACCCCTGGTA CAATTTCAAA	180
	CGCAATATGA TGTTCATTTA GTATGTCGAC TTCTTCTTGC ACACGACCAA ATATCGCTGG	240
35	ATCGCCAACT TTAAGTCTAA CAACCTTGTT ATATCGACGC GTGCTTCCAC GATACAGTCA	300
	TTATTTTTCT GGCGGAAAAT GTTTGGAAAC GGCTTTTACC AACANGGTAA TTCAGAGGCA	360
	ATCGCAATGN AAATTACGGN TCACNAACGG TCATTGGATG	400
40	(2) INFORMATION FOR SEQ ID NO: 3017:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3017:	
50	CCTTTTCTC TTCTTTCATA TCTGCAAACG TGCATCAATT TTAGGATCTA AATCTCCAAA	60
	TGCTTCTGCA ACTGGTTCAG AGCGTTCATA ATACATACGA ACTTTTGGAT ATAACGCTTT	120

	TCATTTAACT GTTCATCAGT ATATTTATCA TATGCTTTTG TTGCTTGTTT TAATTCTGCT	240
	TTAACACCAT CATCTTTTTT CGATGTCTTT GAATCATCCT TCTTACTATC GTCGTTCCCC	300
5	ACATGCAGCA	310
	. (2) INFORMATION FOR SEQ ID NO: 3018:	
10	(i) SEQUENCE CHARACTERISTICS: (K) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:	
	TCGCTTTGTA AATTCTGGAA CAAAGnCAGT CATGACAACA ATTCGTGTTG CACGTGCATA	. 60
20	TACTAAAAGA AATAAAATTA TAAAATTTGC TGGATCTTAT CATGGCCATT CTGATTTAGT	120
	ATTGGTTGCA GCAGGTAGCG GCCCATCTCA GCTCGGTTCT CCAGACTCAG CTGGTGTTCC	180
	AGAAAGCGTC GCACGTGGAA GTCATTACTG TACCTTTCAA TGATATTAAC GCCTATAAAG	240
25	AAGCAATTGG AATTTTGGGG TGATGAAATT GCCGCAGTAT TAGTAGAACC AATTGTTGGT	300
•	GAACTTTGGG AATGGnnAAT GCCTCAACCT GGGATTTTTA GGAAGAGGGT	350
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 3019: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:	
40	ATATCATGTG CCAGTGAAAG CGGCACTGGn CGGATATGGC GCACATATGG ACATTATGAA	60
	AGAGTACCAA TTAATCATTT TAGCGCCACA AGTTGCGTCT AACTATGAAG ATATTAAGCA	120
	AGATACAGAT AGATTAGGTA TTAAATTAGC GAFGACTCAA GGTGCTGAAT ATATCAAATT	180
45	GACACGEGAT GGCCAAGCAG CCCTTGATTT CGTTCAACAA CAATTTGAAA ATTAAGAATA	240
	GGAGTTTTTC ATATGACTAA AACATTACCT GAAGGATTTT ATTTTTGGTG GAGCAACAGC	300
	AGCATATCAA GCAGGAAGGT GCGACCAAAT TACGGGATGG GTTAAAGGTC GCGTGCATTG	360
50	GGGATACGGT ATTTTAGGAA GGAAAACTTA TTTGGTACCA	400
	(2) INFORMATION FOR SEQ ID NO: 3020:	

(A) LENGTH: 361 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:	
10	ACGITCGICI TACGITTAAC GCCATACGGI GTATTAGCAA TTATGGICCA ACACATTATC	60
	GACAAGTGAC TTTGGCCCCA TTTGGACTTT AGGAAAAATT CTTAATCGCA TCGTACGCTG	120
	CATTAATTAC GATGTATATC ATTCACTTAA TTATTTTAAG CCTGTTAGGT ATTAGCCCAA	180
15	TTCGCTATGT TAAAAAGACT TTGGAAGTAT TAATCTTTGC ATTCACATCA CGCTCAAGCG	240
	CGGGTGCCTT ACCAATGAAT GTACCAACAC CAACCAGACG TCTAGGCGTG CCAGAAGGTA	300
	ATGCCAATTT CGCTGCGACA TTTGGAATGG CGATTGGACC AAATGGGTGG GCAAGCAATT	360
20	A	361
	(2) INFORMATION FOR SEQ ID NO: 3021:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:	
	CAATGACCAT GACCAGTTGA TTTGGAACAA TGATTGACAT TGGAGCTATG CATCAAGTTT	60
35	GTCTTTAAGA CTACTAAACC CACGAACCAT GTTAACCCCG TGGTGCACCA TCACCAATTG	120
	nctcgatcta attcagttaa ttcagattca tgttttttaa acgtttcttc taaatttaat	180
40	AAACGTGnCT TTCATATCAT TCACTTTCAT TTGTGnCCAC CTCATAAATG TATATTATCA	240
40	TATTCACTCT TATTAAAGTA TGACTGTTGT TGGTGCTAAA AATGCTCCAA ATATTCGGTT	300
	TATTAGGCAC GATAGTTATA GAAAAACCTG ACAGTCTAAA GATGTCATAT AATCAC	356
45	(2) INFORMATION FOR SEQ ID NO: 3022:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 332 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
		•

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:

	\cdot	,
•	GTGTTTGGTC CAATATCCAT ACCTTCTTGG nTCTGCTGGA ATTGAATCAG ATGGTACTAC	120
	AGTGATTTTG GCATCATTAG NAAAATTCTT TAGTCAACTT TAGTGTCTAC TGGTAATACA	180
5	ATTTTATCAC CATGTTTTTC TAATAAATCT TTTGCGAGTC GGATTTTATC TTCTTCTAAT	240
	AATGAAATAC CAATTTCTTT ACCTTGCGCT TTTAAGAAAG TATAAGCCAT ACCTCCGCCG	300
	ATGATAATTT TATCAGCTAT GTTAACTAAT AA	332
10	(2) INFORMATION FOR SEQ ID NO: 3023:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:	
	AAAGGTATTC CACAAGAATT AGCTTTGCAA AAATGCCAAA GCAAACAGAA GATGGNACAA	60
	TTTAAAGTGn CCTACAATCA TGAATGAGGA GGACGCGTAA GATGAGCATT CGCTACGAAT	120
25	CGGTTGAGAA TTTATTAACT TTAATAAAAG ACAAAAAAAT CAAACCATCT GATGTTGTTA	180
	AAGATATATA TGATGCAATT GAAGAGACTG ATCCAACAAT TAAGTCTTTC TAGCGCTGGA	240
	TAAAGANAAT GCAATCAAAA AAGCGCAAGA ATTGGATGAA TTACAGGCAA AAGATCAAAT	300
30	GGATGGCCAA T	311
	(2) INFORMATION FOR SEQ ID NO: 3024:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3024:	
	ATTAGACATT ACAAGGTGCA GTACGTGCAA CATATTAGAC ATATTGAATT AAGTGGTCAT	60
45	GNAAGGTATT GACAGTTAAA AAAGTTGAAC AATTAGAAGA AATCGAGGGC TTAATATTAC	120
	CTGGTGGCGA GTCTACAACG TTACGTCGAT TAATGAATTT ATATGGATTT AAAGAGGCTT	180
	TACAAAATTC AACTTTACCT ATGTTTGGTA CATGCGCNGA TTAATAGTTC TAGCGCAAGA	240
50	TATAGTTGGT GAAGAAGGAT ACCTTAACAA GTTGAATATT ACTGTACAAC GAAACTCATT	300
	CGGTAGACAA GTTGACAGC	319

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3025:	
10	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
15	TGTAATTGTT TGTGTTTACG TATTTCTGGT GGTAAGTTCC GTGAAACCCA ATGTCTATAT	180
3	TCCCATTTAA TACGCTATTT ATAANTGTGT CATGTTCTAA TAAGCTCGGT ATGACATGTG	240
	TATCATTTTG TAAAATGAAC GTTTGGATAA GNGGGAGTAA CATGTGGGAT ACGTCACTCT	300
20	CATCAAGCCA TGTAGATACn	320
	(2) INFORMATION FOR SEQ ID NO: 3026:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:	•
	TCTCAACAAA TGCATCCAGT ACTTAAATTG GCATTATAGT AATTTAAGNA CAATATATCA	60
15	ATATTTCTCC TTATCCAGCA ACAGCAAATT TATTGGTAAG GTGTACGATT GAACCTTTAG	120
	TCAATGAAGC AGGTACATTT GGATTGGCCA GGTGGATTTA CTTCAACTGA GCGCTTTGTG	180
	AGAATGGGCA TTTATGAAAG CAAACATTGC TCAAAACAAT GATAAAGAAA TGGATTTAAT	240
0	GAATGCATTT TATTTATTAG ATGCGGTAAA TATACCGATT GGAATTGTAC GTCCGCATGA	300
	TGCTGACAAT CACTATACGA TGTATCCA	328
	(2) INFORMATION FOR SEQ ID NO: 3027:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,

2413

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:

	ATTGAAAATA TGTGTTCTnT GTAAAATTTT AATCGTTCGC CACGATGCTG TTGATAAAAA	120
	TTCAAAAACT GGAGTTGATC TTCTAGTTCA ACATAATCAT CGTAATTAGA CATGTAACCT	180
5	TTGATTAAGA TTTCAAGTAC ATGATCTTCG ATAGTATTGn TTTTAACTTG TTGTTGAGCC	240
	GCTATATCTT CCATCGTGGA ATTGTTCAAG CAATTTTGTA TAAGTAATAT AAGTTCGATT	300
	TAATGAATGT AGGTTTCATT AT	322
10	(2) INFORMATION FOR SEQ ID NO: 3028:	
15 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:	
•	CAAGAATCTT ATACTTATCA AAATTTATAC TGTGAAGCGA GTCTATTGGC TAAAAAGACTC	60
	AAGGCTTATC AACAATCTCG TGTTGGGCTA TACATAGATA ATTCGATTCA ATCGATCATT	120
25	TTAATACATG CATGTTGGTT GGCAAATATT GAAATTGCGA TGATTAATAC AAGGNTGACA	180
	CCTAATGAGA TGACGAATCA GATGAAGTCA ATCGATGTAC AATTGATTTT CTGTACCTTG	240
30	CCACTGGAAT TACGAGGGTT TCAAATTGTA TCGCTGGATG ATATTGAATT CGCCCnCCGG	300
	GCnTATTACA ACG	313
	(2) INFORMATION FOR SEQ ID NO: 3029:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40 .		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:	
	CTTCCAAAGA AAAGACCACA GTTTTTGACG CATCAATATG GTGCAATTTT AGAGACACTG	60
45	TAGTTGCAGA AGATGGTTCA GTTGGACTTT GAAGACAATC GTTATACAGA AACACGCGTG	120
	CCGCTTATCC AATTAATCAC ATTGACAATA TTGTAGTACC ATCTAAAGCA GCACATCCAA	180
50	ATACAATTAT TTTCTTAACT GCGGATGCAT TTGGTGTTAT TCCACCGATT TCAAAGTTAA	240
50	ATAAGACCAG CAATGTATCA TTTCTTGAGT GGTTCACTTC TAAATAGCTG GnCAGAGCGT	300
	GGTGTGACAG ACCTGACCAT CATCTCAACA TGTTCGnGCA CCGTCTTCCG TACATCAACT	360

	(2) INFORMATION FOR SEQ ID NO: 3030:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
,,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3030:	
	TGATGGATTG GCTAGCAGGT GTTTACATTA ACTCATTAAA TGTTATTCAC TACATGCACG	60
15	ATAAATACAG CTATGAACGT ATTGAAATGG CATTACATGA TACAGAAATT GTACGTACAA	120
,,,	TGGCAACAGG TATCGCTGGT TTATCAGTAG CAGCTGACTC ATTATCTGCA ATTAAATATG	180
	CACAAGTTAA ACCAATTCGT AACGANGAAG GTCTTGTAGT AGACTTTGAN ATCGAGGCGA	240
20	CTTCCCTAAA TACGGTAACA ATGACGACCG TGTAGATGAT ATTGCAGTTG ATTTAGTAGA	
	CGCTTCATGA CTAATTACGT GGTCATTAAA CATATCGTGA TTCAGACCTT CCATGGGNGT	300
		360
25	ATTACCATTA CTTCAACGTG GTnTCGGGTA GAAACTGGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3031:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:	
	NGCGTTTAAT CACATCTTTT TGATAATGTT CCCTTACCAT TTCTTCATGT GCATCTGCAT	60
	AGTCTTTTCC AAATGGCAAA CTAAACTGAT ATGCAACTTT TAAATAGGCA TCTATATGCG	120
40	ACTCGTCAAC GATGGCAATT TCAACGTCNA GTTACGCGGA CAAATTGGCA AGCGCATCAC	180
	TTTCTATGGC ATACAATTCC ATAATACCTA GTTCAAAATT CATATCTTTA AAACATAGCC	240
	ATCCAATGGA TTATCAAGTT GTTCATTTTC CGGGAAAACT NAAACGCATA AATGATTTGG	300
45	AACCTTGATT TGTATGTGA	319
	(2) INFORMATION FOR SEQ ID NO: 3032:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:	
	AAGAAGTGGC AATTATGATT GATGCTCTAG CTGACAAAGG GAAAAAAGCA TTAGAAGCAT	6
5	TATCTAAAAA GTCACAAGAA GAAATTGATC ATATTGTTCA TCAAATGAGC TTAGCAGCTG	12
4	TTGATCAACA TATGGTGCTA GCAAAATTAG CACATGAAGA AACTGGAAGA GGTATATACG	18
10	AAGATAAAGC GATTÁAAAAT TTATACGCTT CTGAATATAT ATGGAATTCA ATAAAAGACA	24
70	ATAAGACAGT AGGGATTATT GGTGAAGATA AAGAAAAAGG ATTAACGTAT GTAGCGGAAC	30
	CAATTGGTGT TATTTGTGGT GTTACCGCCC AACCACCAAA TCCCTACGTC CGACCACCTA	36
15	TTTTTAAAGC CGATGGATTT GCCATTTAAG ACNGGGAATC	40
	(2) INFORMATION FOR SEQ ID NO: 3033:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:	
	TAGCGGTAAT CGAAATTGGG GACTAAATTT CGCAAAAGCG GGTCGCACGA TATCAGAAGA	6
30	GTATAATGTC CCTTTATTAA TGAAGTTTGA GTTACATGGA AAAAACAAAG ACGTTATTGA	120
	ATTTAAGAAC AAGGTGGGTA ATTTTAATGA AAACCATGGA AGAGAAAAAG TACAATCATA	18
	TTGAATTAAA TAATGAGGTC ACTAAACGAG AGAAGATGGA TTCTTTAGTT TAGAAAANGA	24
35	CCNGAGCTTT AGTAGCTTAT TTAGAGGAGT AAANGACAAA ACATCTTCTT CGACACTGAA	30
	TCG	303
	(2) INFORMATION FOR SEQ ID NO: 3034:	
:	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:	
	CTnCGCTATT TTGTAGGACA TCTTCTAAAG TGCTAGGnGA AGAGATTATA GAATAGGCAC	6
	TATCAATACC GAAATCGTAA ACATGTTGAT AATTTTCGCC TAGACTGCCA CAAATCGCGA	12
	TGACAGGAAT ATGATATTGT TTTGCAGCTA ACGCAACGCC TGACGGGTGT TTTACCAAAG	180

	TGATGAAAAT CTGTAATGTC AAAGACGGAC ATCAATGACT TTTGTTGAAA GTTGTCTCAC	300
•	AAAACGNTAA TGAATGCTGC GGCCCATGAC CGGCCAGCTG	340
5	(2) INFORMATION FOR SEQ ID NO: 3035:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3035:	
	AAAGAACATG GTGTAGCAAT AGTCTCTGGA GGTGGAAGCG GACATGAACC TGCGCATGCC	60
	GGTTTTGTTG CAGAAGGTAT GCTAGATGCA GCGGTTTGTG GCGAGTATTT ACATCACCTA	120
20	CACCTGATAA AATATTAGAA GCTATTAAAG CAGTAGATAC TGGTGATGGT GTATTACTAG	180
	TTGTAAAAAA CTATGCAGGT GACGTGATGA ATTTCGAAAT GGCACAAGAG CTTCCAGAAA	240
	TGGAAGGTAT AAATGTTCAA ACTGTTATTG TTCGTGnCGn CATTGCTGTG ACAAACGnGT	300
25	ACA	303
	(2) INFORMATION FOR SEQ ID NO: 3036:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:	
	GGGGAAAGTA AATTAACAGC TGTGTAGAAT AATTAAGGTT TTAATTTATA TAGAACAACT	60
40	TATTGTAAAC TTTTCATTTC TTAAAGTTTA CAATGGTGCT ATAATAATGG TCATGAAATA	120
	CGAAAGGAAG GAAAAAATGA ChACAAAACA GTTAGTATAT ACAGCTTTAA TGACAGCGAT	180
4.5	TATCGCTAGT TTANGATTGG TACCGGTAAT TCCACTACCA TTGnCTTCAG TACCAATTGT	240
45	ACTTCAAAAC AGTGGTATTT CTTAGCAGGG GCGATTTTAG GACGTAAATA TGGCACATTA	300
	AGTGTTATCG TCTTT	315
50	(2) INFORMATION FOR SEQ ID NO: 3037:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:	
5	GCACCAATTG ACGAAGGAAT ACCGAATCCC ATTGTTCCTA AACCACCGCT TGTAACCCAT	60
	TGTCCGTGAT TTTTAAATGG ATAAAATTGA GCTGCCCACA TTTGATGTTG TCCCACGTCT	120
,	GTAGTAACAA TTGCTTCACC ATTTGTAATT TTGCCGATAT ATTCGATTGT TTGTTGTGGC	18,0
10	TTACAAAATA CTTGATCTTC TTCACCAAGT TTAAATGGGT GTTTCTGCTT ATTATTTTGA	240
	CAATGTTTAA CCCAGTCACT GTGTTCTATA GTCTCAACAT TTTTATCATT TAAACCNTCC	300
	AAAAAACCTT TACANGCCNG CAAAAAAACC	330
15	(2) INFORMATION FOR SEQ ID NO: 3038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(will grown of programmer and the second	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:	
	GTGAGTCCAC ATAATAACTT TGACGTCCTG TTAATGTTCT AAAAGGTACT AGACGTTCTA	. 60
	TATTCGTTGT AAATGGTGAA TATCGTCGAC CTTGTTTATT TGAACCTGGG AATACTGCTG	120
30	TCGGTATTAC TTCTCGTGGT TGTGAAGTTA TATTTAAAAA CGAAATTTTC TCAGCAGCGC	180
	TGTCGCTAGA AATATCTTTT AACGGCATTC CAGTTTGTTC TTCGAGATCT TCATATGGAT	240
	TTTTGTGnAT AATTNACCAT TCGTAGCAGA TGGAAATACT TGAGTATNGG CATCAGCGAC	
35	ATTGACGTGC TGTATCAATA CGTGGACGAT TCGC	334
40	(2) INFORMATION FOR SEQ ID NO: 3039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:	
	GGTCTGATCG TGGTGAATGA AAAAGGTTCT TCTCTGTAAT GAATTATCTC TTACCGATGC	60
50	AAGATATTAT GAGCATGCAT TGCTCAGCAA ACGTTGGTGA AAAAGGCGAT GTTGCATTAT	120
	TCTTTGGTCT ATCTGGCACT GGTAAAACAA CCTTTATCGG CTGACCCACA CCGTAAACTA	180

	ATGCAAAAGC AATTAATCTT TCCAAAGAAA AAGANCCACA GNTTTTTGGA CGCATTCAAA	.300
	TATGGTGCAn TTTTAGAGAA CACTGTA	327
5	(2) INFORMATION FOR SEQ ID NO: 3040:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3040:	
•	GTGATATTCA CGANCGTTAT TTTCAATATT TGATAAGTAG AAANTATGAC GATCTTCATG	60
	AACAGCATCT TGTTCTTCGT CAAATTCAAC GTCATCAAAA CGTTTGAAGA ATGTTTCATA	, 120
20	TGCATCAACA GATACTTCAG TACGGTTATT TAATAATGCT TTATGTGCAG CTTGGATCTA	180
	AATGATCTTT GTAGCCTTCA ACTHAATGTC GCACTATAAA ATTCACCAAC TGAACCTGAG	240
	CCATAACTGA ATAAACCGAT TGTTTCCACC AGCTTGTGAA TCTCGATTTT CAAGTGAATG	300
25	ATATT	305
	(2) INFORMATION FOR SEQ ID NO: 3041:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:	
•	GTTGTGTACC TTAAATGATC AACCGATGCA TAAGAAGAAA GTGAGACGTC ATCAAATTGG	60
40	TGCTGTATTT CAAGATTATA CGTCATCATT ACATCCATTT CAGACTGTTA GAGAAATCTT	120
	ATTTGAAGTG ATGTGTCAAT GTGATGGACA ACCTAAAGAA GTTATGGGAA GTCCAAGCAA	180
	TTACATTGTT GGAAGAGTC GGTCTATCTA AGGCATACAT GGATAAATAT CCTAATATGT	240
45	TATCAGGTGG AGAGGCGCAA CGTGnTGCAT nTGCGCGTGC AATATGTATT GAACCCNGAA	300
	ATATATTTTG TTTGGAT	317
	(2) INFORMATION FOR SEQ ID NO: 3042:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>5</i> 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:	
5	AATCTTCGAA AAATAATGCA ATGCAGATTC CGAAAAAAAC AATATGATAG AAACACCTCA	60
	ATTAAATACA ACGGCTAATG ATACATCTGA TATTAGTGCA AACACAAACA GTGCGAATGT	120
	AGATAGCACA ACAAAACCAA TGTCTACACA AACGAGCAAT ACCACTACAA CAGAGCCAGC	180
10	TTCAACAAAT GAAACACCTC AACCGACGGC nATTAAAAAT CAAGCAACTG CTGCAAAAAT	240
	GCAAGTTCAA ACTGTTCCTC AAGAAGCNAT TCTCAAGTAG GTTATTAAAA CACGGATGGT	300
	GCTAATAGCT INGCAACAAC GIGGGCTTTA AAATTCTCCA ACTTTAGTTI I	351
15	(2) INFORMATION FOR SEQ ID NO: 3043:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:	
	ACGNCCTTAC TGGNTACTTG GTTGATAAGT GTTAATCCAA ATGACGTCCT GCTACGTACA	60
	GCTTTACGAA TATTTAATGC ACGTGTGATA TTTTGAGAAA ATACACCGCC TGGCTAAACC	120
30	ATACTCAGAA TCATTAGCTA TATCAATTGC TTCTTGATCG TCCTTCACTT TAATCACTGT	180
	TAACACTGGT CCAAATATTT CTTCTTGTGC TAATTTGTGA TGATTGTCTG GCACnCAATT	240
	AATGTCGGCT CAAAGAAGAA CCCTTTATCT AATCCATTTT CAGTTAAGCG ATGACCGCCT	300
35	GCTAAAATTT GTGCATCCG	319
	(2) INFORMATION FOR SEQ ID NO: 3044:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3044:	
	GTCATATAAT CTAACATTTG TGTTATCTGT TAATTAACTG GNTTTTACCT TAATTTGTTA	60
5 <i>0</i>	CATTGTTCTG TATTAAATCT TTTTGTAACC ATTGGTTACT TTTTCAGGTG GAATTTCAAC	120
	ACCCATGTCA CCACGTGnCA ACCATTAAAC CATCAGACAC TTCAAGAATT TCCGCAATAT	180

	AAATTCACGA ATTTCTAAAA CATCACTAGG TACGACGTAC GAAACTTGCT GCAATGAAGT	300
	CAACATTTTC TTTAATACCG AAACGGATAT CTTCAGCATC TT	342
5 .	(2) INFORMATION FOR SEQ ID NO: 3045:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:	
15	TAATATCATG TTGTGCTTTT AGTGCTTCGG CAATTTGTTT TGTACTTACT GACCCAAACA	60
	ATTTACCACC TTCACCAGTT TTTGCTGATA CTTCAACTTC AATGTTTGAT AACGTTTCTT	120
20	TTAATGCTTT ACATCTTCAA TTTCTTGTTG GCGTTCTTGT TTTGCACGTT TTTTCTGTAA	180
	CTCTAATTGT TTAAGGTTAC CTGGTGTTGC TTCTACAGCA TAATTCTTTT TCAATAAGAA	240
	GTTATTTGGC ATAACCTACT GGTACTTCTT TAACTTCACC TTTTTTACCT TTACCTTTAC	300
25 .	CTTTAACADC TGTGTAAAAA TTACTTTCAT GCAGDTCACT CCTACTTAAA TGTTCCGTAA	3.60
	TGCCTGTTGT AATGTGCCAA CGCCNCTCGA CGTGACACCT	400
30	(2) INFORMATION FOR SEQ ID NO: 3046:	
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 306 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:	
40	AATCACTGTT TCATTACTTG TTCCAAATCT GNATTCAAAC TATTGTTCAA AGATTCTAAT	60
	TCCGCTTTAT TTTTATCTTT AATCGCTTTT GTCATCGCAG CATCTTTAGn CATCGACTTn	120
	CTGTTGCAAT AGTTTAATTT TAGAACCCGC ATCTTTACTA GCCAATTTCT CTTCATAAGC	180
45	AATTAATGAC TTCGTTAATT GCGAAAGTGT ATCTTTTTGA TTATCATTCG CTTTTGCATC	240
	TTCAAGCTTT CTCACATCTG CATTTGACAG CATTACTTGC ACTATTATCT TCAAGCGATA	300
50	ATTTCT	306
	(2) INFORMATION FOR SEQ ID NO: 3047:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:	
	ATGGATCATA TTAGCACGTA AAAGAAAATT CTGTTCATTA TGAAGAAGTG CCAGAnGTTG	60
10	AATTTAAACG CACATATGTA TGTGAAGATA TGTCTAAATG TATTTGTTTA TACAACGCAC	120
	CTGATGAAGA AGCGGTANTC GCGCGCGCAA AGCAGTTGAT ACACCGATTG ATGGCATCGA	180
	AAAACTTTAA TAAGACAACA AGTTGATGAG ATATATGTAT ATAGGTTTGG CATGGATTTC	240
15	GATTGCANTT ATTAGAATAG CTCAATGCTA TAAATGTAAG TAGTTGATAT TGAGGAACTA	300
	ATGAAC	306
	(2) INFORMATION FOR SEQ ID NO: 3048:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:	
30	GACAGGCTAC GAGATATTTT AAACAAATTT ACATCAAATC CAGTATTAGG TGTTATTGCA	60
	GGTATCGTTG TAACTATTTT AATACAAAGT AGTTCAGGTA CGACATTATC ACAATCGGAC	120
	TGGTAACnCT GGATTTATGA CATTGAAACA AGCCATTGGA GTGATAATGG GTGCTAATAT	180
35	CGGAACANCG GTAACTGCAT TTATTATCGG TATAGATTTA GGCGAATATG CAATGCCAAT	240
	TTTAGCATTA GGTGCATTCT TGAATCTTTT TCTTTAAACG CTCTAAA	287
40	(2) INFORMATION FOR SEQ ID NO: 3049: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:	
50	CATATAAATA GCGnTACATC GCGCCATTCT TGATCTGnAC ATATCTTTCT TAGGTCCAAC	60
-	CGTGAATGAT TACGTCCATG ATAACGTACA AACGCAATTT CATTTGTGAT TCGATTGACT	120
	AAAGGTACAC TGCCATCTTT CACTTGTGGT TCATCAACTA CTGCATGAAT GATTTGATGT	180
<i>55</i>		

	AATTCTACAC ACATTGGAAA GCTTGTAATG CTGTCTTACA TACAAATATA TTGATATTTG	300
	TGCATGCAGT CAACCAGGCG GAAATGACCA TACCATGCTA ATTTTCTGGT ANGAAGGCCT	360
5	ACATATCTAA A	371
	(2) INFORMATION FOR SEQ ID NO: 3050:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:	
	CGCCAAATAA AGATAATACA CGTATTGGTG AAGATATAAC TGTAACTGCA CATATCTTAA	60
20	TTGATGGCGA AACAACGCCG ATTACGAAAA CAGCAACATA TAAAGTAGTA AGAACTGTAC	120
	CGAAACATGT CTTTGAAACA GCCAGAGGTG TTTTATACCC AGGTGTTTCA GATATGTATG	180
	ATGCGAAACA NTATGTTAGG CCAGTAAATA ATTCTTGTCG ACANATGCGC AACATTGAAT	240
25	TTCCAATTTG TTGGANCATA TGGGCTAACA AGGTGTTTAG GCATATCTAC TCGTCTTATT	300
	GGGTGCATAT GTAATGGCAA GCA	323
30	(2) INFORMATION FOR SEQ ID NO: 3051: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051:	
40	CCGnACCAAT CGGTTTACAG TTCATTGGTA AACCATTCGC ATGAAAAAAC GTTATATCGT	60
	GTCGCTTATC AATATGAAAC ACAATACAAT TTACATGACG TTTATGAAAA ATTATAAGGA	120
	GTGGAAATCA TGCATTTTGA AACAGTTATA GACTTGnGTT CACGTAGAGT TAAAAACGGA	180
45	CTCAAAAATG TTTCTCCATC ACCAGCGCAT TTMGAGCAGA ACCTAACTCA AATACGAATG	240
	GTATCGCTTA GCATATCCAG TGCTTACCAG TTGTTAATAA GCGTGCGTAG ACGGGCATGC	300
50	GTGCTGCAAT GCCTAAATAG GAACG	325
	(2) INFORMATION FOR SEQ ID NO: 3052:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:	
	CTTTTAATCG CTTGAAAACT ATAGGTAAGA CAATACAAGT AGCTACAAAG CCATATATTA	6
: 10	CTGTTAATTG ACCTATGAAA AAATATCCGC TAACGGGTGC CGTCAATCCT GCGATAGCAA	120
	TACCAATAAA AAGTACAGTC CACGAAGGAT AAACATTTTC AAGTGAAAAA TCTTTTAAAT	180
	ATTTTATTGA AAAAATAATC ATATGCGTCA TAATTCCCAC AAGGCATAAA ATCCAAATAG	240
15	GCGTATTAAG CTATTGTAAA GTTTGTTACT AAAAAATGTT TTAAATAGTG TnCTAAAAAG	300
	CCGGCATGAA AATGTGTGAC CTGATGAACT GAGGCTGTTA TTGTCTTCAC TTATTAAATT	360
	TGTCTAGTCT AAAGGTGATC CAATCAGAAG CAAGTCCGCA	400
20	(2) INFORMATION FOR SEQ ID NO: 3053:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053: AATGAGATGC GAAGGATGAT CAGAGAAAAA GTCTCTCAAT CAGGTGTGAA AGTCAGATGG	60
	TTATCACAAC TTTGGCGTAC GTTTTCGATA TAATGCACTA GGTGATTTAA ATACGAGCAA	120
35	TATTGTTTCT TCAAAAGAAA GTTTCGGTAT TACTGAAGTG TGAAATCTGT CTCTATGCAT	180
	GCCGGATCGA CATTAGCATT ACTAATCCAG AGAAAGCAAA AGGTATTGTG TATACACCAG	240
•	AACATTGCCA GCGAAAAGTA AATGGTCACA GCTGTAGANC AAGGTATTTA TAATGGGGGC	300
40	GGTAAAGCAG AAGGCCCCTA TGTAGCATTT CnTAAAGnTG GGAAAAGGTA AAGCAGCATT	360
	ATCGGTG	367
45	(2) INFORMATION FOR SEQ ID NO: 3054:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	;
50	(b) TOPODOGI. IIMEMI	

2424

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:

	THATTTATCT HAGCTCATGA CATGATGGCT GTTCACATTG CAAGGCGTTG ATGATHAAAT	120
	AAGGAAAGGC ATTAGGAAAA AGCCACAGGG AAAACATTTC AGCAGCAGGT TCTTGGAATC	180
5	ATATATTCAA GTTCAACAAG CGAATGCTGT TAAATTGCCC TTTGGATGAC AATCAATTCG	240
,	ATATCGTTTT AAATGAAGCA ATGTTAACAA TGTTACCCAT CGCCATAAAG GAAAAAGCAT	300
	TACGCGAGTA CTACCGAGTC TAAAGCCTGG GGGTATCTGT TAACACATGA TATTGTCATC	360
10	GTTAATGAAT CACATGCCAC AC	382
	(2) INFORMATION FOR SEQ ID NO: 3055:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
2 0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:	
	CTTAAGATTA GGTGTGCTTA ATTAGTACTG GCTGGGAACG ATAAAGGCAT ATTGCAAAAA	60
?5	ATAGAACATC CATATCCATT AAATGTATTT ACGCTAAATA TTGnCGACTT ATATTTTTAG	120
	ACATAGAGAA GAGACAAGAC AATTTTAAC GATGCAACGA CAGTTAGGCT GAGGCAGTTA	180
	AAACAAATAT TTGATACACA TGTTGnCAGA TAAAAGTCAG TGTTCCCATC AAATGCNAAT	240
	TTTGTACTAC TAAAAGCTCA GCAGCGCAAC AATTAGGACA ATACGTATAT GAACAAGGGA	300
	TTTAAACCTC GCTTTT	316
35	(2) INFORMATION FOR SEQ ID NO: 3056:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:	
	GTTCACCATC CGTTTATTTC AATGAAAAAA TCGACAAAAA TGGTCGTGAA AACTATGATG	60
	CAACAATTAT TCCAAACCGT GGTGCATGGT TAGAATATGA AACAGATGCT AAAGATGTTG	120
50	TATACGTACG TATTGATAGA ACACGTAAAC TACCATTAAC AGTATTGTTA CGTGCATTAG	180
	GGTTCTCAAG CGACCAAGAA ATTGTTGACC TTTAAGTGAC AATGAATATT ACGTATACTT	240
	AGAGAAAGAC nGCACTGAAA ACACTGACCA GCGTATTAGA ATCATGACGT TACGTCCAGT	300

	CTTAGCAGCG TGGGnCGTAT	380
	(2) INFORMATION FOR SEQ ID NO: 3057:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 327 base pairs (B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Island:	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:	
15	TATGTGATGG ACTTAAAAAA ACGAACTCAA TTAATACAAT GGGCTCAAGA AAAAGAAGAA	60
	CGATTTATTA TAGAAGATGA TTATGATTCC GAGTTTAGAT ATTTCGGCAA ACCCATTCCA	120
	GCAATTCAAG GTCTATATTC AAGAGGAGAA AAAGTGATTT ATATCAGTAC ATTTTGCAAA	180
20	GTCTATTTTT CCTAGCTGTT CGAGTTGGCA TATATGGTGT TACCCTATTC TATAATGGAA	240
	AAAATATCAT TTCTnCAAAA TCCACCATTG GAAGGGCAAC ACTGGTAACC TGTTTCATAT	.300
	GGCAAAACCT TATTGGCAAC GTTTnAT	327
25	(2) INFORMATION FOR SEQ ID NO: 3058:	, .
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:	
	CGAAAAAGGA GAATGAAACA TGAGGTAATA CAACATTACA TGCAACAACA ATTTATGCGT	60
	GTAAGACATA ATGGAAAGCA GCTATGGCTG GAGATGGGCA AGTAACGCTT GGTTCAACAA	120
40	GTCATCATGA AACAAACGGC AAGAAAAGTG CGACGTTTAT ATGAAGTAAA TGTTAGCTGG	180
	TITCGCAGTA TGTAGCAGAT GCGTTTACTT ATTTGAAAAA TTCGAAACAA nATTACAACA	-240
,	GTTTAGTGGT AACTTAGAAA GAGCNGCTGT TGAATTGGCA CAAG	284
45	(2) INFORMATION FOR SEQ ID NO: 3059:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 302 base pairs (B) TYPE: nucleic acid	
, 55	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAAGAAGCGG ATGAAGAGCT TTGCATTGAG CTCGACCCAG GTATGGCTTT TGGAACAGGT	60
	GATCATCCGA CTACAAGTAT GTGTTTGAAG GCAATAGAAA CATATGTATT GCCACAGCAT	120
5	TCAGTAATTG ATGTTGGTAC TGGCTCAGGT ATATTAAGTA TTGCAAGTCA TCTAATCGGT	180
	GTAAAACGTA TTAAAGCGTT GGATATTGAT GNAATGGCAG TGAGTGTAGC TAGAAGANAA	240
	CTTCAGAAGA NATCATTGTG AACGTTGAAT TGGAAGCTGT TCCAGGTTAA CATATTGGAA	300
10	AG	302
	(2) INFORMATION FOR SEQ ID NO: 3060:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:	
	TTTTTAAnGA CACATTGNGC TGTGTTTAAT GCATGAAAGG AACCACTGAC ATGCATNAAA	60
25	TCTTTGAATG GTTCTTTATC AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA	120
	TATAATTCAA AAAGGGTCGA GGATATGAAA TCACATCTTC GACCCTTTAT TTACTATTTT	180
	AATTCAGCCA CACGCAAACG GTTATTTGCT CTCTCTAAAG CTCTTTCGGC TCTATGGAAT	240
30	ATCAGTATTG TCGTCAATCA TTTTCCAAGT GAGACTCTGC TCTTGCTTTG GCTAATTTAG	300
	CTCTTTCAAC ATCAATTTCT CTTGCAGTTC	330
	(2) INFORMATION FOR SEQ ID NO: 3061:	220
35 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:	
15	CGATCAATCA ATATAATTCA CGGCGCAAAA CGTTTATTTA GCATGTTCTT GCAGACTCTG	60
٠.	AAACTGGCAT TAAACCTTCC ATTAAGATTT TTACCATTCT AGGCATTAAT ACCATTACTG	120
50	CAGCCATTGA CATTCCTAAA TTAATGATGT CTCCAGGTTT GTAACCTGCT AACACACCAA	180
•	TACCTAAMCC TAAAATTAAG CCGACAAATA TAGACTCTCC AAATGCGCCA AAACGTTTTT	240
	GAATTGNTTC AGGATCAGCA TCTAACTNAT TCAGACCGGG TACTTTTTGT AACAATTTAA	300

	(2) INFORMATION FOR SEQ ID NO: 3062:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:	
	TATAAAATCA ATGATTITAA CAAATAAAAA CGTACCGCAA ATACTGCAAA TAACAGCAAA	60
	TACTAGTITT AATAAAATAT GACCGGTTGG AAAGAACAAT AAAGCAATTA AAATACCTAG	120
15	TTTAGCCCAT TCCATCGTTC CAGCTGTAGT CGGACTAACA AACTTATTTT GCATCATTTG	180
	TTGGCATTAT CAAGCCTGCT GAAAGCCAAC GAACTTCCAG CAATTAAAAT ACTCATCGTC	. 240
20	CTTGGTATTC GGGCTTGGAG AATAAAATGA TTCCGCTGGT GACTCAGTTG AAATGTAGTG	300
	AAATCTTTGA ATTGGATAGT TnCACTGCAC ACCTGATGGN ANCAACGGAA	350
•	(2) INFORMATION FOR SEQ ID NO: 3063:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:	
٠.	TTAGTGATTT TAACGTGTAT CGGTAATTTT AAATAAATGT TTAATGCTTT TGAAAATACA	60
35	GTTCTAACCG AAGACGTCGG GTACACTGAA TCACCGGAAA CGCCAAGGTC TTTTATTAAA	120
	CCTTGTTCAC TATATTGCAT ATACTGTGGA TGCTGTCGCA ACACATTGAT TTGATAAGGA	180
40	TGTGTTGGTA ATAAAATAAA ATCTTTGGGT ATCTCTGATA TATCTATGTC TGCTAATTGG	240
	ATACHACACT TTCTCAACCT GGATCCTTCC TTTTACCTHC CACCATAGCC GCGTGGANCA	300
-	GGAAACCATC CTGGGATGCA CCAGCCAAAA TAAATGCCAA TT	342
45	(2) INFORMATION FOR SEQ ID NO: 3064:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	GTCCAGCTCC AGAACCAAAC TTAACAGTAT TATGGTCAGT ACGTTTACCT GACAACTTCA	60
	AAACATACTG TGCAAAAATG AGTATTAAAA CAAGTTCTAT CCAATATGAA AATGATGACA	120
5	TTATGCGTGA AAGCTATGGC GATGACTATG GTATCGCnTG TTGTGTATCA GCGATGACAA	180
	TTGGTAAACA AATGCAATTC TTCGGTGCAC GTGCGAACTT AGCNAAAACC TTACTTTACG	240
٠	CTATCCATGG TGGTAAGATT GAAAATCTGG TGCACAAGTG GGCCCAACCT CCGAGGGATT	300
10	naccagegga gtaatt	316
	(2) INFORMATION FOR SEQ ID NO: 3065:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:	
	TGATTGCGTG GATCAGCAAC TTCAAAGATT AACAAATAAT ATTACTTGGG CAGATAACCG	. 60
25	CGCTGCAAAA TATGCAACAG TAATAAATGA AGTGCATGAT GGGCAATGCG ATTTACCAGC	120
	GNACAAGCAC ANCGGTTTCA TCCTATGTCG CCATTAGCGA AGATTTTTGG ATGAAACATG	180
	ATGGCCAGAT GTATTTCCAC GTACTGCTAA GTTTGCAGAT ATTAAAACAT ACATTTCTAT	240
80	CATTATTGAT ACATATATCA TTGATTATTC CATGGCTTCC GCNACAGGGA TGTTAATTAG	300
	AACATAGATT GGAGTGAGGC AT	322
15	(2) INFORMATION FOR SEQ ID NO: 3066:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid	
0	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:	
5	TATAAAGAAT CCTGCCTTAC CTAAGAACAC TTGTCTTGTC	60
	CTTATGTTTA TTATCAACCG TTAATAAACT TACCATCAAG AGTGCACCTA CCCATACTGA	120
	CAGTGCAGTA TAGAATGGTG TCATACCTGA ACCATAATCC TTAACTGGGA AAACATCAAC	180
o	AGTCTTCTTA TTAATAGATT GCAATAATAC CCGCTGCTTT TTCAAATCAT TCTAnTGGTC	240
	GATTAATTGT CGACGCATCA TCTTGTCAAT TCTTGAAATT TATTCGCTTT TCAACTTTCA	300

	CACGCTGACA TAC	373
	(2) INFORMATION FOR SEQ ID NO: 3067:	
<i>5</i> `	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 311 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:	
15	TTCAGAGTTC GGAACATAAG GCGCTACAAT GTTGTGTTGC CAGTAGTTGA CTGAATATGC	60
	GTTTGTAACA AGCTTTTTTC GATTCTAGTC AACAGTAATT AAATTTATGA TATGGGCAAT	120
	ACTITGTAAT ACTAATATTA AATGGCGACT TTATTTCACT ATGTTATAAG AGTGCCATTT	180
20	GTTGATAAAG GNATACTAAA GGGTATCGTT TGGAATTTTA GTAACTAGAT ATGTTCGGGT	240
	ATAGACCGNA TTGTGGATAC GTAAATTTAA TGCNATGAAT TTTAAAATGA AAACATGACA	300
	TTAAATGAAT C	311
25	(2) INFORMATION FOR SEQ ID NO: 3068:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3068:	
	TATGATTATC TAGTAAGTAA ATTGCTGACG CGCCGAATAC CGCAAAGAAT ATAAAGCAAA	60
	CTAACGCCGG GACAAAAGT ACACCTAGGA ATAAATTCTT TAATCGTACG TCCTTTTGAC	120
40	ACACGTGCAA TAANATACCT ACAAATGGGT GCCCAGGNTA TCCACCATGG CCCAGTAAAA	180
	GATTGTCCAA TTTTGTAACC ATTGGGAATT TTTGACCACC TGTCGGAATG CGTAAACTCA	240
	TACTTAAAGA AATTTGCATT ATAATTACCT AGACC	275
45	(2) INFORMATION FOR SEQ ID NO: 3069:	
50.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,

	AAATGGGTTC TGTGACATTA ACGTCTACAA AAGATGGTTC AGAAGAAACA CACGAGGCTG	60
•	ATGGTGTATT CATCTATATT GGTATGAAAC CATTAACAGC GCCATTTAAA GACTTAGGTA	120
5	TTACAAATGA TGTTGGTTAT ATTGTAACAA AAGATGATAT GACAACATCA GTACCAGGTA	180
	TTTTTGCAGC AGGAGATGTT CGCGACAAAG GTTTACGCCA AATTGTCACT GCTACTGGCG	240
	ATGGTAGTAT TGCAGCnCAA GTGCAGGGAA TATATTGACA TTAACGATCA GCCTAAnTCC	300
10	GAGCHGATTA GATGTGAGCG G	321
	(2) INFORMATION FOR SEQ ID NO: 3070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:	
*	GTTTGACCTG CATATTTGAC AGTCATAACC TTTGTATCAC CATTATATTA ATATCAAAAT	60
25	CTTGGAACGT GTTATTTGAG nTGACATTTA ACTTCGCAGC ATTATCAGCT GTTGAACTTG	120
	ATGTATACGT TGCGCAACCC ATAACTATCT GTGTTACAAT GCACCAAACG CACCTCCACC	180
30	AGCTACATTA GATGGGCAGC TTCGCCTTGC AGCTGATTGG TTTAGATGAT TGTGATACGA	240
·	TCCAATTTGA AGCCAAATnG TACTTAAGCA CAATCCTACT GCGGACCGTT TAACCCTGTT	300
	TCACCTATAC ACTGnTGAAA GGCAAACCGT ACCACTCACC ATTTCCATGC CTTCCATATT	360
35	TGGTTACCAA ATTTACTTTT CCCnGAAAAA TGAAACTCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3071:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:	
	TGGCCATTTG TCATTGCATT TTTACCGTGG GTGTTGATTA TTATTCCTTA CTTACTATTT	60
5 <i>0</i>	AAATCGGATA CACTAAATAT TATTCATACG GGTGATAATA TTGCACGAGG TCTAGGTGTA	120
	AGGTTAANCA GAGAACGTTT AATATTATTC TTTATCGCAG TGATGTTATC ATCTGCTGCT	180
	GTAGCATAGC AGGTTCAATT TCGTTTATCG GATTAATGGG TCCGCATATT GCCANACGTA	240

(2) INFORMATION FOR SEQ ID NO: 3072:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:	
	GACTCCCTGC AGGTCGACGT CTAGAGGATC CCCCCACAGC AATTCACTTA TACATGTAAC	60
15	AGTGTGAAAT AATAACGTCA CAACGGCATA ATACACATTG CAACGTCCCA ACAACATATC	120
	ATAGAATCGT AACGGCATGA CATCAACACC AAACCTGGGC TATAACACCA TAACAGCGCA	180
	ACGCCACATC ATAGGCACTA CATCAAGTCG CATCGTAGCA CCAGCACATC AAAGTAACAT	240
20	GGGCATCAAC ATCAAACCGG TCTATAACAC CATAACACCG GCAATGCCAC ATTCATAGGC	300
•	ACTACATCAA GTCGGCATC	319
	(2) INFORMATION FOR SEQ ID NO: 3073:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:	
3 5	ATATACGCTT ATCAGCTGGA GCTCAATAGA TGGAGGATGA TTATGGGGCT ACCGGTTCTG	60
	TCTATAGCAC TGGTCTATCA GCTATGTGGA TTACAATCGG TTTAACATTA GGTGCTTATA	120
	TAAATTACTT TGTTGTTGCT CCTAGACTTC GTGTTTATAC CGAATTAGCT GGAGATGCAA	180
40	TTACATTACC AGATTTCTTT AAAAATCGTT TAAACGATAA AAATAATGTG TTAAAGATTA	240
	TTTCTGGATT GATTATCGTA GTATTCTTTA CATTATATAC nn	282
45	(2) INFORMATION FOR SEQ ID NO: 3074:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(!) anarmine programment and the NA 2004	

	AATCGARAAA TCATGGATGT ACTTGAATCA AATGCAAACA GCGAAGTGTn TTGAATTGCA	120
	TGGTAGCGTT ATAGACGAGC CAGTAGAAAT TCAATCAATT AAAGTATATG TTCCTAACGA	180
5 .	TGATGAAGGT CGTACGACAA CTGTAATTGG TAATGCTTTC CCTGACTCAG AAGTTAAATG	240
	CATTACACCA GCAGATATCA TKGCTTCAAT GAGTTACTTC TTTAACTTAT TAAGCGGLAT	300
: 10	TGGGtATACA GATGATATTG GACCATTAGG TAACCGTCGT TTACGTTCTG tAGGKGGAAT	360
'	TACTACMAAA CCAATTCCGT ATCGGTTTAT CCAAGA	396
	(2) INFORMATION FOR SEQ ID NO: 3075:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:	• •
	ACCTACATTT GCAGTTGTCG GTGTATAACC GGCTGGTGTT GAAAACTCTA CACTATAAGT	60
25	TCCATTGCTT AAACCAGTGA ACTGATATTT ACCATTTTCA TCTGTTGTCG TACGATCTAA	120
•	TTCTTTACCG TTACTATCTT TAAGAATGAC ATAAACACCT TTAATCCCTT TTTCATTGGC	180
30	ATCTTGTTTA CCATCTTTAT TTGTATCTCC CATACATAGT CACCTAGATT ATATTCTTTT	240
	GGGCGCCATA GCAGTTGATG AGCATTCACA TTGAAAAACT ATTGACCACT ATATTAGTTT	300
	GCAGTGCTAA GNATAACATT TCCATACGTG ACATACTGAT AGACTGTGAG TGATGTATGC	360
35	GCTGnTGCTC ATAACG	376
	(2) INFORMATION FOR SEQ ID NO: 3076:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:	
	TTACATCACC AATTAGACGT TATCCTGATT TAACAGTTCA TCGTTTAATC CGTAAGTATT	60
50	TAATTGAGAA ATCAATGGAT AACAAAGAAG TGAAGCGTTG GGAAGACAAA TTGCCTGAGT	120
	TAGCTGAACA TACTTCTAAA CGTGAACGTC GTGCTATTGA GGCAGAACGT GATACTGATG	180
	AATTGAAAAA AGCAGAATAT ATGATTCAAC ATATTGGTGA TGAATTTGAA GGTAATGTCA	240

	AAngCngnga Tatacgtttg Aggcgcaatg C	331
	(2) INFORMATION FOR SEQ ID NO: 3077:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:	
15	AATCATATGC ATCGATTTCC AGCAACAGCA ACCATTCATC CTATGTCCCA TTAGCAAATT	60
	TTTTGGATGA AACATGAATG GCAAGATGTA TTTCAACGTA CTGCTAATTT GCAGATATTA	120
	AAACATACHT TTCTATCATT ATTGATACAT ATATCATGAT TATTCATGGC TTCCGCAACA	180
20	GGATGTTTAT TTAGAAACAT TAGATTGGGA TGTTGAGGCA TAGAACTGCT GGGTATTTCC	240
	AAGGAAATGT TGCCGGAATT ATTCCAACAA CTATTGATGT AAGTATGAAA GAACGTATGC	300
	AACATAATGG GCTAATAAAG TACACCGTnT GTTAATGGTG CNATG	345
25	(2) INFORMATION FOR SEQ ID NO: 3078:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:	
	GATTATCAAG CGATTGATCA AGTATCATCA TTGTTGAAAG AAAAATATGG CATTGCACAT	60
	TCAACGTTGC AAATTGAAAA CTTGCAATTG AATCCATTAG ATGAGCCATA CTTCGACAAA	120
40	TTAACATAAA TAAAACATTG TAGCGCCTAA AACATTAATC TATGTCATAG GCGCACGTTT	180
	CGTTTTATAC TTATGTTGCA TCATTTAAAT GATTTTCGTC AATTTCTTTG ATGCTATCTA	240
45	CATCTAACAC GAGGTTAACT TGCGTTGATT TTGATAAAGT GATCATAGCT TTTAGTACTT	300
	GAGGATTTTT ATTGTTGCTG TTACGAATGT GGTCATGTTT AATGCGGGAC AGTAATTTAA	360
	GTTGTTTTTT TACAATTGAG AGTGTGATAT TTCGATTCGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3079:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 319 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:	
- 5	AAACGTTTAA TATACACTTT TACACGTCGC CTTCATTGAA GCGAATTGCC ATAACCTTCA	60
	CATTATATAT AGTTCTTTCC ATATAAATGT CCAAATTTTT AGAACAACGC AATA±ATAAC	120
	CATCCACCTA ACTTATCAAA AATTTAAGTG GATGGTTTTT CATTTTCATT TATATTTATA	180
10	TTAGTGTTAA TCCAATCATA GATTTATCTA TATGCACTGC TCTATACATT TCCTCATTTA	240
	ATTTGCYTTA CTTTCATTTA TATCATTATC AGAACACTTG GCGTGTCATC GnTATTATTT	300
	CGCATCTITG ANACGTTTA	319
15	(2) INFORMATION FOR SEQ ID NO: 3080:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:	
	TCAAATGCAT CTAGGnCACA TTATTCTATT TGGGCATTCT TAGTGCTGTT CTTATTTGCG	. 60
	GCTTTAACGT CATCTATTTC TTTATTAGAA TTAAATGTTT CTAACTTCAC GAAGAATGAC	120
30	AATACAAAAC GTAAAAAAGT CGCAGTGATC GGTAGTATTT TAGTATTTAT CATTAGTATT	180
	CCAGCAACCT TATCNTTTGG TATCCTAAAA GATGTAAGAT CGGTGCGGGA ACGATTTTTG	240
<i>35</i>	ATAATAAGGA TTCCACCGTT CGAATGTAAT GAAGCCATAA GCGGG	285
	(2) INFORMATION FOR SEQ ID NO: 3081:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:	. •
,	ATCATAGCGT TTCTCCTAAA AATTACGATT AATCAAAGTA TGCCATTATT TAACTTTAGT	60
	TTCTTCAGAA TTATTTGCCC CATTATCATG TTTTTCTTCT TTATTAACAG CATTTTTATC	120
50	ATTTTTAACA AGATACAATT TACCAATTAA TGGGCGGTGT GCGTGCTGGT ATGGGTTATA	180
	CTGGTTCACA CGATTTAAGA GAATTACGCG AAGAAGCACA ATTTACACGT ATCCCTTACC	242

•	CATTCTAATT AAGATAAAGG AGAACGACAA ATATGGGAAA TGGCAAAGGA CCAAGAGTTA	360
	ATCCTTGTCT TAGGACTTTG GTAGGCCATT ACACCCATTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3082:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:	•
	TGAATTTGCT CCAAATAAAA ATACAATTGC CATTAAAATC ACCAGATATT ACAAGTGGCA	60
	ACATGTTAGA AACACCGTTC ATTAAGTGTT TATAGAATGC TTTACCTGGG CTTATTTCTT	120
20	GACTGTCATT TGAGTTACCT GGCAACAAAA GGTTTACGAC TTGTATCTAA TGAATACCAT	180
	CTGCTACTGG ThCTTCTACG ACATTTTTAC CATCGANGCG GTCCGTCTCA ACATGTACAT	240
	CAGCAGCA	248
25	(2) INFORMATION FOR SEQ ID NO: 3083:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:	
	TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC	60
	ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA	120
40	ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT	180
	ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT	240
	TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCCnA TGATAGGACG	300
45	ATATAAAAGG CATTGGNACG ACAAGNACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC	360
	GGGGTATC	368
50	(2) INFORMATION FOR SEQ ID NO: 3084:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:	* .
5	TTGGACTTTA TAAAGTTACT AAGTTGTAGA TTATCCTGGT AAAGAAGATA TTGCGGTTGT	60
	ACAAGTTGAA GAAAAATCAA CACAACCAAA AGGTAGAAAA TTCAAAGATT TCACTAGTAA	120
	ATTTAATATA GCATCAGAAG CTAAAGAAAA TGAACCTATA TCAGTCATTG GTTATCCAAA	180
10	TCCTAATGGA ATAACTACAA ATGTATGAAT CAACTGGTAA AGTATTATCA GTGAATGGGA	240
	TATAGTGnAT CGGATn	256
	(2) INFORMATION FOR SEQ ID NO: 3085:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:	
25	ATATGCATAT GCTTCTTTAG GTGAACGAAT ATCTGGTTCA GATACGATTT CAATTAGCGG	60
	TGTACCTTGA CGGTTCAAGT CAACTAATGA ATACTCCACC TTTATGTGTT GACTTACCAG	120
	CATCTTCTTC CATGTGAAGA CGAGTAATAC CGATTCGnTT TGTTTCACCG TCGACTTCGA	180
30	TATCGATATA TCCCATTTCA CCAATTGGGT TGATCAATTG AGAATTTGAT AGCTTTGGGA	240
	TATCGGGATA GAATAGTCTA CGGTCAACTA GATCNGGTGC GANTCCATAT TTAGTGCCAT	300
	GCAGCACGCA T	311
35	(2) INFORMATION FOR SEQ ID NO: 3086:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:	
	ATGTAAATGA TCATCCTTCA TAATAACAAC GATTACTGAT CTTGATCATG ATTTTGAACA	60
	ATAACAACTG CITTATTAAT ACCTTGTATA CGCTCGAGNC ATGCCAACCT CTGACAACTC	120
50	AATCCTAAAC CCTCGAATCT TAACTTGTTT GTCCTTTCGA TATAAATAAT CTATGTTGCC	180

55

ATCGGGTAAC AAACGAACGA TATCACCACT TCCTATACAT CAGCTGATTT ATATTTGAAT

(2) INFORMATION FOR SEQ ID NO: 3087:

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3087:	
	GTAAAGATTT CAATTCATCA TCTTTAAATA AACTTAATGG TAATTnGTTA TACCNAATAA	60
	AGCCTTCTGG ACACTTCCTT TAGACCGACG ACCGTCTTAG CTAATGTCGA TTTCCCTGAC	120
15	CCTGATTCAC CGACAATGCC TAATGTTTCG CCTTTTCTAA TAGCCAAGTT AATATCATAA	180
	CTGCTCGGTA TGGGCTGCCC CTCGGTGATG TGTAATCCAC GCTCCACGCG ATCGATTTTA	240
20	ATAAAATATC ATGGTT	256
	(2) INFORMATION FOR SEQ ID NO: 3088:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:	
	AAGGTTATTT GAATGATCAA GGTATCCACA AAAGAGGTGC TGAAATAGAT CGACTCGTTA	60
3 5	AAGGATGTAC AGGTGTTAAA CGTACAACTG GACAGCATCC AGGGGGTATT ATTGTAGTAC	120
•	CTGATTACAT GGATATTTAT GATTTTACGC CGATACAATA TCCTGCCGAT GATCAAAATT	180
	CAGCATGGAT GACGACACAT TTGATTTCCC TTCCTnTCAT GATATGTATT AAAACCTGAT	240
40	AAACHTGGAC ACGTGATCCC ACCATGATCG ATGCCTCCAG ATTATCAGGA ATGATCCAAA	300
	ACCATACCTG AGATGTAAGA GTATCAGTAT TAGACnC	337
	(2) INFORMATION FOR SEQ ID NO: 3089:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3089:	

	AAACATTACT TTACGCTATC AATGGTGGTA AAGATGAAAA TCTGGTGCAC AAGTTGGTCC	120
	AAACTTCGAA GGTATTAACA GCGAAGTATT AGAATATGCC GANATTCAAG AATTTGATCA	180
5	AATGATGGAT TGGCCTAGCA GGTGTTTACA TTAACTCATT AAATGTATNA CTACATGCAC	240
	GATAATACAG CTATGACGAT TGAATGGATT ACATGTACAG AATTGTCCGn CCATGGCACA	300
	GGA	303
10	(2) INFORMATION FOR SEQ ID NO: 3090:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3090:	
•	CTTTCGTTAA AGGGGCATAT TCATATAATG GATGGTCATT AATAATAATT CCTGCCGCAT	- 60
	GTGTAGATGT ATGTCTTGGT AAACCTTCTA ACTTTTTACA AATACTGAAC CAGCGTTCAT	120
25	GTCGATGGTT TCGATGTACA AACTCTTTAA AATCGTCAAT TTGATATGCT TCATCAAGTG	180
	TAATTCCTAA TKTATGTGGG ATTAAACTTG GAAATTTCAT TLAATGTAAC TTCATCAAAC	240
•	CCCATAATTC TTCCAACATC TCTAGCAACT GCTCTTGCAA GCAGATGACC GAAAGTCACA	300
30	ATTCCAGATA CATGTAGCTC GCCATATTTT TCTTGGACGT ACTGAATGGA CCCTTTCTCG	360
	GNGTGTATCT GCAAGGTCAA TTTTCATTnT CAGGCATGGT	400
35	(2) INFORMATION FOR SEQ ID NO: 3091:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3091:	
45	TTGTTTTTTC ACGTTCAATn ATTATCTTCA ACTTGTGACT ACAGATTTTA AAATGGAATT	60
	TACAAGTATC TTCTTCAATA TTTTGCATCA TGATATCAAA TAATTCATGA CCTTCATTTT	120
	GATAGTCACG TAATGGATTT TGTTGTGCAT AAGAACGTAA GTGAATACCT TGACGTAATT	180
50	GGATCCATGT GTCGATATGG ATCAGTCCAA TGGCTATCAA TAGAACGAGG TAAAATCATA	240
	CGCTCAAACC CCATCCATTG GNTCCTCTAA GATACCTTTT GACCTTGGAT AGCNGCTCAA	300

(2) INFORMATION FOR SEQ ID NO: 3092:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3092:	•
	CGACACCTCA ATAATCATAT CGTAATGTTC AACTTTTCCT GATTTAAATG TAATTTCATT	. 60
	TCCATTGATA GCATTAATTT CCTCATTTAA ACGGTATGGA ATCTCCCGCT TATCTAATTC	120
15	ATCAAGTATA GGTTGATTCA GTCGGCATCC ATAATTTATT TATCTTATCA GATCGATGAA	180
	TAAAGTAGGG TGTAAACCAC GTTCCATAAA GATTTCAAGG AACTCCAATG GAACATAACC	240
20	TGCACCTACC ACCAATACTT TATCCACTTG GATTGGCTTG GAGGAATGGT CGGATAGGCA	300
20	TCCAGGGCCT CCAAAATTCC nAGGGGAAAn GGTAATATCC ACCTTCCAAG GCCAAGGGCC	360
	AATTGGCACC TGGCCACCCA GGGnCTTAAA AAGGGGTTAA	400
25	(2) INFORMATION FOR SEQ ID NO: 3093:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3093:	•
3 5	TTATACCCGn CAAATTCATA AATATAGTNC CTTTTCAATA GATTGATATG TATGTCTAAA	60
	TGTATCGATT AACTTTGCTA ATGCTGCTTC ATCTAATGGT CGGTCTGCTA ATTTTAAAAA	120
40	TGTATTCTTC AATAGGTATT CCCATATAAT GCGTTATTTC TTTAGATGAT GGTTCCGTTA	180
	AGCCACATGC TTTAAATGCA CTTTGTGTTG CTACTTCACC ACATTTTTC GTGTCTGCCA	240
	ACGTACCATC AA	252
45	(2) INFORMATION FOR SEQ ID NO: 3094:	
50 <u>.</u>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		-

	AATCTATTAA TAATGAAGAA AAAATTGTAC TAGCACGTAG ACGGTTAATA AAGTTCGATA	60
	AAGATATCAG TATTCCATAT ATTCTAAAGC AAGCATATTC TAAAGAAAAA AACAGTTATA	120
5	TATTCTTGTT AGAATCACAA GATTCTATAT TCTTTTCACA AACACCTGnn CAATTAATAA	180
	AGGTCAATAA TAAAATCTAT CGACTAAAGC TGTGCAGGTC AATTAAACGG TCACAAGTGA	. 240
	GGCCGAGGTA CAAAAAATGT TGAGCATTTT AAAGTATAAA CTTATCGACA CGnTTGTGTG	300
10	CAGTTTTCAT GTTT	314
	(2) INFORMATION FOR SEQ ID NO: 3095:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3095:	
	GGTGAGGCGG CATTGAGAAA AAATGCTGAA GTAATCGAAG CTGTATCGCA GTCTTGTTTG	. 60
25	ACAACAGGAT TTTGTTTATG GTGCCAATTA GCTTTTTCAA CGTATTTAGA AAATGCCACG	120
	CAGCCACATT TAAATAATGA CTTACAACAG CAATTGTTAT CTGGAGAAAT ATTAGGTGCT	180
	ACCGGATTGT CTAATCCCGA TGAAGTCATT TAATGGATTT AGAANAAGTT GGACCCTTTG	240
30	AAACACCACC TTAATGTTGG ATGGGACCAA TTGGGTGGTC CAGTGGGANC GTAATGCCCA	300
	GCTGTAAAGT nATAATCCAA GGAAAGACCC AT	332
35	(2) INFORMATION FOR SEQ ID NO: 3096:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3096:	
45	TTTATGCATA CGCGCACTCA TCACACTACC GACAACAACA TCATCTTTTC GAGCATATCT	60
	ACTTAACAAC GTCATGACCA CACTCATAAA GAACATAAAA TCAGTAATTT GATGCTTTTC	120
	TACATACTTT TGAAGTAGCT GTCTCATTTG TTGATTCATG TAAATGACAT CATGCTCCAT	180
50	TTGTCGGTTT AATAATTGGT CTAACATANT CTGTCGGGTA AGCCTAAAAT AGGGTACTTC	240
	ATCCTTGAAT TGAGGATACC CATATTGGTC CTAAGGTTCG GTCCATATCC ACGGATGGCG	300

	ATTTAAGGTT GGATAAAGGT GCCGTTAAGG ATCCAATTCC	400
_	(2) INFORMATION FOR SEQ ID NO: 3097:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3097:	
15	ACTCTGGTCC TTCTGCATAA CTGCCGTAAA TAATTCACCT TCATCACACG CTGTACCTAC	60
	CAATAATCCC nCACGATATA CGTGGAATTC GAGGTGTACG GTAGAAATAC TTCACCAATG	120
	ATGCACTTAC AATTTAAAT AGATTTTAA GACCTTGTTG GTTTTGTACA ATTAATGTGA	180
20	CATGACTAGG TCTTGCACGT TTATATGCAT CTTCATTACT GAGTTTTTTG GTTGATTTTC	240
	GTTATGATTT AATACGGCTA ATTCT	265
·.	(2) INFORMATION FOR SEQ ID NO: 3098:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3098:	
35	CTAATGTATC AGTTTGGCAT GAATTCTTTT GCATCTTTCA ATAATTGTTG TGATCTTTTT	60
	TAGTCACATC ATCAATTTTC TTATCTTCGT ATAATGCTTT TTCAATCTTA TGATATCCTG	120
	ACCATTCTTT TTCCTTTTTC TCTTCTTTCA TATCTGCAAG CGGGCATCCA ATTTTAGGAT	180
40	CCTAAATCTC CCAAATGCTT CTGAACTGGT CAGAGCGTCA TAATACATAC GACTTTTGGA	240
	TATACGCTTT InCTTGGGCA TACATTATTT CAATCGTTTA CAAATTTTTC TGACCTTTTA	300
	AAATCATTNA CTGTCANCAG A	321
45	(2) INFORMATION FOR SEQ ID NO: 3099:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	\cdot	

	ATCCGCAATC TGAGAAACAT CATCTTCGAG TTGTTGGAGG GTTCCAATTT TCAAGTCATA	60
	AATCAGATGA TGAATGGCGA GAGTTTGGAC TAAATCATTT TGTATTACCT GAAGTTTTAA	120
5	TTTCAACTGA TAATAATGGG ACATTTTTAA CTTATACAGT TAAAAGGGAA AGTTTTACTG	180
•	TTGAGGCATT GAACGATTTA ATGGATTGTT CAACAATATA TCGGACATAG AGTGGACGAC	240
10	CAATGGGGGA ATACCAGAAT GAGATATTAT AAAACA	276
	(2) INFORMATION FOR SEQ ID NO: 3100:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3100:	
	GTCATTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAC nTAAAACGTT	60
	GTTAATAACT TGCCGGGCTT CACACTAATC AATGGTGGCA AAGTAGGGGT GTTTAGTCAT	120
25	GCAANGTTAA GAACGAGCAT GTTTGATTCA GGAGATAATA AGAACTATCA AGCACAAGGA	180
	AATGTAATTG CATTAGGTCG TATACATGGA ACTGATACGA ATGACCATGG CGATTTT	237
30	(2) INFORMATION FOR SEQ ID NO: 3101:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 254 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	,
3 5	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3101:	
40	nCGATATAAC AAGGTTGTTA GACTTAAAGG TGGCGATCCA GCGATATTTG GTCGTGTGCA	60
	AGAAGAAGTC GACATACTAA ATGAACATCA TATTGCGTTT GAAATTGTAC CAGGGGTGAC	120
	ATCAGCGAGC GCNAGTTTGG CTACTATGCA GACAGGTTTG ACAATGCGTA CAGTTGCTAA	180
45	AAGTGTGGAC ATTTTCTACA GGTCACTTTT AAAGATTCAG AAGAAAATGA AGTGGGATGG	240
	TCCATTCCTT AAGT	254
50	(2) INFORMATION FOR SEQ ID NO: 3102:	
·	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 240 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	:

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3102:	
	CAATCACTCA TGTAGTAATT GATACCTAAG AAGTCGTTTA AATCTTTGGC TGCATCTAAA	60
5	ATGGCATAAT CTTCATnTGT AATGTTTAAT TTACCGCCAn TAACAGATAA GATATGTTGC	120
	ACACCTTCCA TCGTTTCACG AGTAATACTT ACCTAAATAT GTTGCATCTA AGATGAATIT	180
	ATTATGGATG GATATCTTCT AAATTCTGCT GCACGGGACA TCTTCAGGAT TTGGATGGTT	240
10 .	(2) INFORMATION FOR SEQ ID NO: 3103:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3103:	
	GTTGTAAACT TCAATTGTTC AAATAAATAA CACATATCAT TGGAGGTGAA TTGATATGCC	60
	AGATTCAATC ACAATTATAG ATGAAAACAA AGTGGTTGAT GTTGTATTAA TTGCAGGTAG	120
25	AATTTTACTT GAATCAGGTG CTGANACATA TCGAGTTGAA GATACAATGA ACCGTATCGC	180
	ACATAGTTAT GGTCTTCATA ATACATATAG TTTTGTCAGT TCAACTGCAA TTATTTTTTC	. 240
30	ATTAAACGAT CGAACAAGTA CAAGATTAAT TCGTTACAAG AGCGTACAAC AGATTTAGGG	300
50	AAngtgcgaa taagcggggn aattcttc	328
	(2) INFORMATION FOR SEQ ID NO: 3104:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3104:	
	TTTTGCTTTG TGCGCTAATA ATCTAATGTT CGTGGAACCG nAACCAGAGA TATTACAAAT	60
15	ACATCATCGA CTAATCGCAG GTGTCGTTGA TTCTCCAACA ACATGTGCCT GTTTGCCGAG	120
	CTGATTTAAG GCGGCATTGC AAAACTATTC GCCACGAATC CTGAACGTCC TTTGCCAGCT	180
	ACAAATATAT GTTCAGCATG TAGTATTTTG GATGCAAAGT TGAAAACTCA TCCGCTTCAA	. 240
50	CATGTGACAA AGTCACTTTA ATCDA	265

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3105:	
10	ACTAGTAGAG TATCTAATGG TGATTTAATC ATTATTACTG CTGGTGTACC AACTGGTGAA	. 60
	ACTGGAACTA CTAATATGAT GAAAATCCAC CTANTTGGTG ACGAAATTGC TAATGGTCAA	120
15	NGTATTGGAC GTGGATCAGT TGTTGGTACT ACATTATTGC TGAAACTGTT AAAGATTTAG	180
	AAGGTAAAGA TTTATCTGAC AAATTGATCG TTACTAACTC AATCGATGAA ACGTTTGTGA	240
	CCT	243
20	(2) INFORMATION FOR SEQ ID NO: 3106:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 234 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3106:	
30` :	CTATTGCGTT TGGGTAAATC TAAAGCAGGC GTANATTATC AAAGTTTGGG ATATGCAACC	60
	AGCACACTTA TTCTTTATGA TTGCAGCGCC AGAAGTGGnG CCCAAACACA TCTAGATGCT	120
3 <i>5</i>	TTACTAAGTT GTCTGGTATT TTAATGGATG AAAATGTACG TGAGAAATTA TTACATGCTT	180
	CATCACCTGG AAGAAGTACT AGCGATCATA GATGAGGCTG GATGATGAAG TGGA	234
	(2) INFORMATION FOR SEQ ID NO: 3107:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3107:	
	TTTTGAAGCG GCATAATCAT GAAGAATAGG ACTAGGATTA TAACCTTGTA CAGATGATGT	60
50	CGTTGTAATT GACGCACCCG GTTTTAAATA TTCCAATGAC TTTTTGAACT GTCCAAAATA	120
	GCGGnTAGAn ATTCGTTTCA AATGTTTCTG TAAATGCCTC AGTTGTAAAT CCATGAATAT	180

	(2) INFORMATION FOR SEQ ID NO: 3108:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3108:	
	CTTTAAGTTA CGTTCGGCTT TGATTAAAGT AAAACGTGGT ACTGTTTCCT ATGACAAGAG	6
<u>-</u> -	TCTAATTGGA TACAATGTAA ACAAAATGGT GNATTTGTAT TATAGATAAT AAACATTCGN	12
15	TATACATTCA ACATATCGAT GACCACTTGG ATTAAGCAAC GTAATATCAT TCGTACTGCT	18
	CAAGAAATGA CAAACGAAAT ACGAGAAAAT TTTGAGTCAT ACACGTCATT TAGAATGAAT	24
20	AGTATTATGC AAGTACT	25
	(2) INFORMATION FOR SEQ ID NO: 3109:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
30	() CROWINGE DESCRIPTION, CEO ID NO. 2100	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3109:	6
	CTTAAAGCCA AGTCGATCTG CTAATTTTGC AAGTGTCACT GAATCTTGCA ATGCCTTTTG	12
35	TGCATCCTTA CCTTCATCTA TTAAGGCATA GTCTAATACG CTTAATTTAA CCAATCCGTC	18
	ATCTCCAAAC TTATCCTGTC ATGTCAAACC GACATAACAT TTGTAGCGTT CTTAATACCA	22
	TTCCCTCTGC ATATACCCAC GTATATGATA ACGTTTTTCA TTTAACT	42
40	(2) INFORMATION FOR SEQ ID NO: 3110:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3110:	
50	TITCTTCATC GTTTGTGAGA AAGAGGTATT TTTAATTGGG AAAnCAGGTA AAAAGGATGG	6
	AAGTACATAA AAAGAGCAAT GCTTGGGCAT TATTCCnCTT GTTATTATTT GTGGCGTTGT	12

	GATAACGTAA TTGTGCGTTA TTAATGAATC GAAAAGAATC ATTGCTAAAA AGTGAGTCTC	240
	CGAAAGGCGG CCTTCAACTG TTAAGAGTGA TTTATTGCAG GCTTCAATCG CGAAATGGTG	300
5	Chaagegegt attageacta geegaa	326
	(2) INFORMATION FOR SEQ ID NO: 3111:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3111:	·
	CTACGGCGCC TTGCATCTTT CCCAACAATT AACCCCAACT CTATTAGCAC AGATTTATCA	60
20	ATTGATTCAT AAGCTTCATC AAAGGGTGAA CTAACATGCA TTAACGCTTC TTTAATATCA	120
	ATTAAGTCGG CATGTTCAAC ACCAATTTTC CCTTTTTAT TTTTAGCTTT TTCTCTATCA	180
	ATATACGCAT GTTTAACACC TTTGACATGT TCAGTAAATT GTGACTTCCT NAATTTTTTA	240
25	TCCTCCCTTG GTGnnGGGGG GGGGGGGGG GGGGGGGGGG	300
	(2) INFORMATION FOR SEQ ID NO: 3112:	• • •
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: núcleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3112:	
	TTATTGTTAA CACAAGGnTT CGAACAAGGT TGGTTTAGTA CATTTTCAAT CATTTGTCTG	60
40	AGCATTTTTA TCATCACTAC GTTGATATTC ATCATCATCG AACGTCGACA TGAAGTACCT	120
	TTTATTGATT TCTCAGTATT ACGCAACCGT CCGTTCATTG GTGCATTTTT AAATAACTTT	180
	GTTTTAAATA GCGGTCTAGC GTAACAGGGT CTTTCATATA TGCTCAACAC ACCTGGTTTA	240
45	TCGCGCGCAA TCGGACTGTT ACATGCCAAT GCCATGGGCG TTCGAGATCG TTAGTGAAAG	300
	CACATAGTTC GGGCAATGAG CCACATGGTC GTGTCCGTCA CGCACACATA TAGCAGCT	358
	(2) INFORMATION FOR SEQ ID NO: 3113:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3113:	
	TCGGTCTTGA AAACCGACAG GGGACTTAAC GGCTCGCGGG GGTTCGAATC CCTCTTCCTC	60
5	CGCCATCAAT ATTTATATTA AATTCTATAT ATAATGAAGG TAAGTGCTCA AATTTTGAGT	120
	ATTTACCTTT TTTATTTGTC TTTGAATGGC TCGTAATTTT TGATAATAGA AATGATAAGG	180
	CATTGAGATT GGAAGGGCAT TTGGCTTGTG CAANATACAT AGCNAAATGT CGTTGTTGTT	240
10	TTGTGATAGA T	251
	(2) INFORMATION FOR SEQ ID NO: 3114:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6591 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3114:	
•	TTTAAGTGAA TTmCTTTGGG TTACAGAAWT TTCAACAACT TTAAAGCACG TATAATGATG	60
25	ATTTTCAGCT TGTACAAAGG AGAAAAAAAG AAGACAACCA AGCCCAATAA TGGACTGGCC	120
	GCCTAATAAT AAAAACTCTA AAAGTTGTAT TTTAAAAATA GTTCTTTAAA TTATATACCC	180
	ACCACATTTG GTGGAGACC GTTAAACAAT GCATAGTTGC TTAACTTCCA ATATTGAACT	240
30	CATCATTACA ATTTGACATA GAGTCTATTA AAGCGTGTGC CATTTGAGTC CACTTTATT	300
	TGTATTGTAT AGAGAGAAT AAAAAGAAAC CTTGTTTTAC AAGGTTTCTA ATACGTTATG	360
	TTATGTAAAT AACAGTTAAT TATACCGGTG GTCGGGGTCG AACCGACACT CCACAAGTGG	420
<i>35</i>	AACGGGATTT TGAGTCCCGC GCGTCTGCCA ATTCCGCCAC ACCGGCTTAA TGGTAAACAA	480
	AAAACTTCCC TTTGGAAGCA ATTATGGAGC GGAAGATAGG ATTTACACCT ATACCTCGTT	540
40	CCGGGAAGGA ACGTGTTCTA AAAGTTGAAC TACTCCCGCA AATATTAAAT TATGGAGCGG	600
	AAGATAGGAT TTACACCTAT ACCTCATTCC AGGAAGGAAT GTATTCTAAG AGTTGAAATA	660
•	CTCCCGCATT ATTATTAAAT TATGGAGCGG AAGATAGGAT TTGCACCTAT ACCTCGTTCC	720
45	GGGAAGGAAC GTGTTCTAAA AGTTGAACTA CTCCCGCATA AACCTGGAGG CGGCAACCGG	780
	ATTTGAACCG GTGATAAAGG TTTTGCAGAC CTCTGCCTTA CCACTTGGCT ATGCCGCCAA	840
	TAACTGGGCT AGCTGGATTC GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG	900
50	CTTGGCTATA GCCCATTAAT AATAAGGGCG GCTGAAGGGG ATCGAACCCT CGAATGTCGG	960

	CGAACCCACA	CCAAAGGTTT	TGGAGACCTC	TATTCTACCG	TTGAACTATG	CCCCTATTAA	1080
	AAATAATAAA	TGGAGGGGG	CAGATTCGAA	CTGCCGAACC	CGAAgGAGCG	GATTTACAGT	1140
5	CCGCCGCGTT	TAGCCACTTC	GCTACCCCTC	CATAAATGGT	GCCGGCCAGA	GGACTTGAAC	1200
	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	CTACCAATTG	AGCTAGGCCG	GCTAAGAAAT	1260
	GGTTCAGGAC	AGAGTCGAAC	TGCCGACACA	TGGAGCTTCA	ATCCATTGCT	CTACCAACTG	1320
10	AGCTACTGAA	CCATAATAAA	AATGTAATGA	TGGCGGTCTC	GACGGGAATC	GAACCCGCGA	1380
•	TCTCCTGCGT	GACAGGCAGG	CGTGTTAACC	GCTACACTAC	GAGACCTATA	AAATATTGCG	1440
15	GGAGGCGGAT	TTGAAÇCACC	GACCTTCGGG	TTATGAGCCC	GACGAGCTAC	CGAACTGCTC	1500
	CATCCCGCGA	TAATAAAAA	TAATGGCGGA	GGAAGAGGGA	TTCGAACCCC	CGCGGCCCGT	1560
	TAAGGCCCTG	TCGGTTTTCA	AGACCGATCC	CTTCAGCCGG	ACTTGGGTAT	TCCTCCATTA	. 1620
20	TTATAGGTAA	ATCGCTATTA	TAAAATTA	TAAATGGCGG	TCTCGACGGG	AATCGAACCC	1680
	GCGATCTCCT	GCGTGACAGG	CAGGCGTGTT	AACCGCTACA	CTACGAGACC	ATTAGTAAAA	1740
	CGGAGGAAGA	GGGATTCGAA	CCCCCGCGAG	CCGTTAAGCC	CCTGTCGGTT	TTCAAGACCG	1800
25	ATCCCTTCAG	CCGGACTTGG	GTATTCCTCC	TATATTAAAA	GGaCtTGCAG	GACTCGAACC	1860
	TGCGACCGAA	CGGTTATGAG	CCGTTAGCTC	TAACCAACTG	AGCTAAAGGT	ССТАААТАТА	1920
30	ATTTTACAAC	TAATAAATAG	TGGCGGTGGA	GGGGATCGAA	CCCCGACCT	CACGGGTATG	1980
	AACCGTACGC	TCTAGCCAGC	TGAGCTACAC	CGCCTTATAT	AGTTTGTAAA	TAATATGGTG	2040
	GAGACTAGCG	GGATCGAACC	GCTGACCTCC	TGCGTGCAAA	GCAGGCGCTC	TCCCAGCTGA	2100
15	GCTAAGCCCC	CATAATAATT	ACAGTATATC	GGGAAGACAG	GATTCGAACC	TGCGACCCCT	2160
	TGGTCCCAAA	CCAAGTGCTC	TACCAAGCTG	AGCTACTTCC	CGTATAATTA	ACGCGCCCGA	2220
	TAGGAGTCGA	ACCCATAACC	TCTTGATCCG	TAGTCAAACG	CTCTATCCAA	TTGAGCTACG	2280
10	GGCGCATATG	TTTTTATTGA	AAATGGTGCC	GAGGACCGGA	ATCGAACCGG	TACGGTGATC	2340
	ACTCACCGCA	GGATTTTAAG	TCCTGTGCGT	CTGCCAGTTC	CGCCACCCCG	GCACTATAAA	2400
	AATGGAGCAG	AAGACGGGAT	TCGAACCCGC	GACCCCAACC	TTGGCAAGGT	TGTATTCTAC	2460
	CGCTGAACTA	CTTCTGCATA	TGCGGGTGAA	GGGAGTCGAA	CCCCCACGCC	GTAAGGCGCT	2520
	aGATCCTAAG	TCTAGTGCGT	CTGCCAATTC	CGCCACACCC	GCAAATGGTG	AGCCATAGAG	2580
ю	GATTCGAACC	TCTGACCCTC	TGATTAAAAG	TCAGATGCTC	TACCAACTGA	GCTAATGGCT	2640
	CTTCCATGGT	GCCGGCCAGA	GGACTTGAAC	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	2700
	CTACCAATTG	AGCTAGGCCG	GCAATATGTA	AGAATAAATG	GTGGAGAATG	ACGGGTTCGA	2760

	AAACTGCCTG	GCAACGTTCT	ACTCTAGCGG	AACGTAAGTT	CGACTACCAT	CGACGCTAAG	2880
	GAGCTTAACT	TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	2940
5	CATATGAATG	TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGtGnA	TTTTgctCGC	3000
	AAAACATTTA	TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	aCATGTCACC	3060
	ATGCTTCCAC	CTCGAACCTA	TTAACCTCAT	CATCTTTGAG	GGATCTTATA	ACCGAAGTTG	3120
10	GGAAATCTCA	TCTTGAGGGG	GGCTTCATGC	TTnAgGATtT	TCAGCACTTA	TCCCGTCCAC	3180
	ACATAGCTAC	CCAGCTTATG	CnTTGGCACG	ACAACTGGTA	CACCAGAGGT	ATGTCCATCC	3240
15	CGGTCCTCTC	GTACTAAGGA	CAGCTCCTCT	CAAATTTCCT	ACGCCCACGA	CGGATAGGGA	3300
	CCGAACTTCT	aCGACGTTCT	GAACCCAGnC	sTGTACCGCT	TTaATGGGCG	AACAGCCCAA	3360
	CCCTTGGGAC	CGACTACAGC	CCCAGGATGC	GATGAGCCGA	CATCGAGGTG	CCAAACCTCC	3420
20	CCGTCGATGT	GAACTCTTGG	GGGAGATAAG	CCTGTTATCC	CCGGGGTAGC	TTTTATCCGT	3480
٠	TGAGCGATGG	CCCTTCCATG	CGGAACCACC	GGATCACTAA	GTCCGTCTTT	CGACCCTGCT	3540
	CGACTTGTAG	GTCTCGCAGT	CAAGCTCCCT	TAŢGCCTTTA	CACTCTATGA	ATGATTTCCA	3600
25	ACCATTCTGA	GGGAACCTTT	GAGCGCCTCC	GTTACCTTTT	AGGAGGCGAC	CGCCCCAGTC	3660
	AAACTGCCCG	CCTGACACTG	TCTCCCaCCA	CGATAAGTGG	TGCGGGTTAG	AAAGCCAACA	3720
<i>30</i> ·	CAGCTAGGGT	AGTATCCCAC	CAGCGCCTCC	ACGTAAGcTA	GCGCTCACGT	TTCAAAGGCT	3780
30	CCTACCTATC	CTGTACAAGC	TGTGCCGAAT	TTCAATATCA	GGCTACAGTA	AAGCTCCACG	3840
	GGGTCTTTCC	GTCCTGTCGC	GGGTAACCTG	CATCTTCACA	GGTACTATGA	TTTCACCGAG	3900
<i>35</i>	TCTCTCGTTG	AGACAGTGCC	CAAATCGTTA	CGCCTTTCGT	GCGGGTCGGA	ACTTACCCGA	3960
	CAAGGAATTT	CGĈTACCTTA	GGACCGTTAT	AGTTACGGCC	GCCGTTTACT	GGGGCTTCGA	4020
	TTCGTAGCTT	CGCAGAAnct	Arccactcct	CTTAACCTTC	CAGCACCGGG	CAGGCGTCAG	4080
40	CCCLATACAT	CACCTTACGG	TTTAGCAGAG	ACCTGTGTTT	TTGATAAACA	GTCGCTTGGG	4140
	CCTATTCACT	GCGGCTCTTC	TGGGCGTTAA	CCCTAAAGAG	CACCCCTTCT	CCCGAAGTTA	4200
	CGGGGTCATT	TTGCCGAGTT	CCTTAACGAG	AGTTCGCTCG	CTCACCTTAG	AATTCTCATC	4260
45	TTGACTACCT	GTGTCGGTTT	GCGGTACGGG	CACCTATTTT	CTATCTAGAG	GCTTTTCTCG	4320
	GCAGTGTGAA	ATCAACGACT	CGAAGACACA	ATGTCTTCTC	CCCATCACAG	CTCAGCCTTA	4380
50	ACGAGTACCG	GATTTGCCTA	ATACTCAGCC	TTACTGCTTA	GACGTGCAAT	CCAATCGCAC	4440
	GCTTCGCCTA	TCCTACTGCG	TCCCCCCATC	GATTAAAACG	ATTATAGGTG	GTACAGGAAT	4500
	ATCAACCTGT	TATCCATCGC	CTACGCCTGT	CGGCCTCAGC	TTAGGACCCG	ACTAACCCAG	4560

	TTCGCTACTC	ACACCGGCAT	TCTCACTTCT	AAGCGCTCCA	CATGTCCTTA	CGATCATGCT	4680
	TCAACGCCCT	TAGAACGCTC	TCCTACCATT	GTCCAAAGGA	CAATCCACAG	CTTCGGTAAT	4740
5	ATGTTTAGCC	CCGGTACATT	TTCGGCGCAg	TGTCACTCGA	CTAGTGAGCT	ATTACGCACT	4800
	CTTTAAATGA	TGGCTGCTTC	TAAGCCAACA	TCCTAGTTGT	CTGGGCAACG	CCACATCCTT	4860
10	TTCCACTTAA	CATATATTTT	GGGACCTTAG	CTGGTGGTCT	GGGCTGTTTC	CCTTTCGAAC	4920
10	ACGGACCTTA	TCACCCATGT	TCTGACTCCC	AAGTTAAATT	AATTGGCATT	CGGAGTTTGT	4980
-	CTGAATTCGG	TAACCCGAGA	GGGCCCCTC	GTCCAAACAG	TGCTCTACCT	CCAATAATCA	5040
15	TCACTTGAGG	CTAGCCCTAA	AGCTATTTCG	GAGAGAACCA	GCTATYTCCA	GGTTCGATTG	5100
	GAATTTCTCC	GCTACCCTCA	GTTCATCCGC	TCACTTTTCA	ACGTAAGTCG	GTTCGGTCCT	5160
	CCATTCAGTG	TTACCTGAAC	TTCAACCTGA	CCAAGGGTAG	ATCACCTGGT	TTCGGGTCTA	5220
20	CGACCAAATA	CTAAACGCCC	TATTCAGACT	CGCTTTCGCT	ACGGCTCCAC	ATTTACTGCT	5280
	TAACCTTGCA	TCAAATCGTA	ACTCGCCGGT	TCATTCTACA	AAAGGCACGC	CATCACCCAT	5340
	TAACGGGCTC	TGACTACTTG	TAAGCACACG	GTTTCAGGTT	CTATTTCACT	CCCCTTCCGG	5400
25	GGTGCTTTTC	ACCTTTCCCT	CACGGTACTG	GTTCACTATC	GGTCACTAGA	GAGTATTTAG	5460
,	CCTTAGGAGA	TGGTCCTCCC	AGATTCCGAC	GGAATTTCAC	GTGCTCCGTC	GTACTCAGGA	5520
30	TCCACTCAAG	AGAGACAACA	TTTTCGACTA	CAGGATTATT	ACCTTCTTTG	ATTCATCTTT	5580
	CCAGATGATT	CGTCTAATGT	CGTCCTTTGT	AACTCCGTAT	AGAGTGTCCT	ACAACCCCAA	5640
	CAAGCAAGCT	TGTTGGTTTG	GGCTCTTCCC	GTTTCGCTCG	CCGCTACTAA	GGGAATCGAA	5700
<i>35</i>	TTTTCTTTCT	CTTCCTCCGG	GTACTAAGAT	GTTTCAGTTC	TCCGGGTGTG	CCTTCTGATA	5760
	TGCTATGTAT	TCACATATCG	ATAACATGAC	ATAACTCATG	CTGGGTTTCC	CCATTCGGAA	5820
	ATCTCTGGAT	CAAAGCTTAC	TTACAGCTCC	CCAAAGCATA	TCGTCGTTAG	TAACGTCCTT	5880
40	CATCGGCTTC	TAGTGCCAAG	GCATCCACCG	TGCGCCCTTA	ATAACTTAAT	CTATGTTTCC	5940
	ATCCTACAGG	AAACGCGTTA	TTAATCTTGT	gaGTGTTCTT	TCGAACACTA	GCGATTATTT	6000
45	CTTATGAATT	CAAGCTTATT	TAAAACTCTT	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	6060
45	TATTTTACTT	ACTTATCTAG	TTTTCAATGT	ACAATTTCTT	TTTAGTCAAG	CGCTCGCATA	6120
	AGCAATATCA	CTTTAACCAA	AAAATATTTG	AATGTTAAAT	AAACATTCAA	AACTGAATAC	6180
50	AATATGTCAC	ATTATTCCGC	ATCTTCTGAA	GAAGATGTTC	CGAATATATC	CTTAGAAAGG	6240
	AGGTGATCCA	GCCGCACCTT	CCGATACGGC	TACCTTGTTA	CGACTTCACC	CCAATCATTT	6300
	GTCCCACCTT	CGACGGCTAG	CTCCTAAAAG	GTTACTCCAC	CGGCTTCGGG	TGTTACAAAC	6360

	ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC AATCCGAACT	6480
	GAGAACAACT TTATGGGATT TGCTTGACCT CGCGGGTTCG CTKGCCTTTG TAATGTCCAA	6540
5	TGTAGCACGT GTGTAGCCAA ATCCATAAGG GGCATTATGA TTTGACGCAT C	6591
	(2) INFORMATION FOR SEQ ID NO: 3115:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3115:	
	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
20	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
	TGTAATTGTT TGTGTTTACG TATTTCTGGT GTAAGTTCCG TGAAACCAAT GTCTATATTC	180
	CCATTAATAC GCTATTATAA TGTGTCAGGT CCAATAAGCC CCGGATGACA TGTGTATCCA	240
25	TTTGGAAATG GAACCGTTGG GAAAGTGGGA ATAACATGGG GGAACGTCAN TCCCCNCCAA	300
	GCCCATHGAG GTACCTTTAA TTTTA	325
30	(2) INFORMATION FOR SEQ ID NO: 3116:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid	·
<i>35</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3116:	
40	CCGnTTGAGT TCGGTGGCGA CATGATTGAT TTTGTAAGTA AGTATGATGC AACATGGGCT	60
	GNTTTACCTA CTAAATTTGA GGCGGGTACT CCATTAATTG CTCAAGCATT GGGCTTGTCA	120
	GAAGCTATTC GCTATTTAGA ACGCATAGGT TTTGATGCAA TTCATAAATA TGAACAAGAA	180
45	TTAACGATAT ATGCTTATGA GCAAATGTCT G	211
	(2) INFORMATION FOR SEQ ID NO: 3117:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3117:	
	AACGINITIT GAAATGATTG CGGCGATGIT GGCGACAGIT AAAGTAGGIG GCATCITATA	60
5	TACCTATCGA TATTGATTTT CCGAATAAAC GACAAGGTGC AATTTTGGAG GATGCTAAAG	120
	TAACTGCAGT CATGTCTTAC GGCGTTGNAA TTGAAACGAC ATTACCAGTC ATTCAATTGG	180
	AAAATGCTAA AGGCTTTGTT GAATCAAAGG	210
10	(2) INFORMATION FOR SEQ ID NO: 3118:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3118:	
	TTAATTGATC CTAGCTTGGT TTGCCTCTGT CACTTTATCA TTGATATTTT GGACAGTTGG	60
	GTTGCCATTC AACACTTGAT TAATTTCAGT TAACTTTTGA CGCGCTGCTT GTAATTTTTG	120
25	GGTGTACGCA TTTAACGAAC GGnCGTCATA CCTGTTGTAT CCGTTGGTTG ATTAATGCTT	180
	GTTCTAAATT GCGTTTCCAA GTTThAAGCG GCGCTTATCT GGTGT	225
	(2) INFORMATION FOR SEQ ID NO: 3119:	223
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
3 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3119:	
40	CCAACATGAT GCTAGTTTGA TTAAGTTTCT TCTAAACAGA CTTCAAACGG CATGGTTTAG	60
	CATATCCTAT TAAGGTTGAA TCGCGTTAAC AGCACATAGG AAATGCTGTT AGGCGATGCA	120
	GAGTGCGATT AGGCAGCTAC TGGAAAATTA TTGTTTGATT TGCCAGTTAT TATAAACTGT	180
45	GTGTGTTGAT GNCGANCACA ACCCCTCCGA ACACGCTTAA TG	222
	(2) INFORMATION FOR SEQ ID NO: 3120:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3120:	
	CGGCGATTAT ATTAAAAAGC CAATTACAGA ATGTAGTGGT AATGAAATAT GCCAAGAATG	6
5	GCTGTATCAC TTAGGTGTAT CAACTGACAA AATTGAAGAC TTAGCAAAAC ATGCATCTAA	12
	tACGATTCCT GTTTATATGC CATATATCAC ATCTTATTTC ATGGACGCGT GCTATCGGCG	18
	nacagacctt tragtcgtgc ccggcatgca atctncagga acttaggcat trattggtga	24
10	ACTITG	24
	(2) INFORMATION FOR SEQ ID NO: 3121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3121:	
	CAAATACCTT CTCAACnTTG TACTTTTTGC CTAATTGAGC TGCACGAATT GCTGCAACGT	. 60
25	ATCCACCAGG ACCTGCTCCG ATTACTATAG ATCTGTTTCA ATTGGGAAAT CTCCAACTAC	120
	CATGTTTTAC CCCTCCATTA ATAATAATTC TGGATTATTT AATAAACGTT TAATGTGATT	180
30	CATTGCATTT TGGCCAGTTG CACCATCAAT TTGTCTGTGG TCAAAGCTTA ATGAKrtGCt	240
50	AATACTGGTG CTGCAACAAT TTCTCCATCT TTAACGATAG GTTTTTGAGC AATACGGCCA	300
	ATTCCTAAGA TTGCTACTTC TGGGGTGATT GATAACTGGA GTGAACCATT GTCCACCAGC	360
35	TGAACCGATA TTACTGATTG TGCATnnGCA CCTTnCATT	399
٠	(2) INFORMATION FOR SEQ ID NO: 3122:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3122:	
	CAGACAAACC TTGAATTATT CTACCTATAA TTAAAAATGC TGGCAAAGGT GTAATGATGA	60
	TGAGTAATGA ACCTACAACA TTTAATATCA ATCCTACATA AGTAATTTTG ACGCGACCAA	120
50	ATTTATCAGC AACATCACCA GCACCTACGT AAACCAACCA GCCAATAAGG CAGATAAGCT	180
	AACAGCGTAT TATCGTTCCC ACGTCACTAC TATATGTGGA TGTATGGGAC ACAGTTTACC	240

	G	301
	(2) INFORMATION FOR SEQ ID NO: 3123:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 378 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3123:	
15	GGAGCAAATT TATCATCTGC AACTAGACAC AACATCACTG TTATTAGTAC CGGGTTATAT	60
	AGTAGCAGTC ATTGTTGGTG CACTAAGTGG TAAAATCGGC GAATATCTGA ATTCAAAACC	120
	AGCGATTATC ACAGCAATTA TTTAATAGCA CTGAGCTTGA TTTACCTGCA TTGCAGTAGG	180
20	TAATCACATT CAATCTCGTC ATTCTATGAT ATCTTGCAGT AGCTTGCTTA ATGATGCACT	240
	TACTACGAGC ATAAACATGT CTATATGCAG GTGCATGTTA TATTATATAT GGCGACGAGA	300
	TCGTnGGCCn ACGTTAACTA ATTCNGCATG TCTAGCCTCG AATTATATAG TAGGAGCGTA	360
25	GTACGCCAAC TGCCACGA	378
	(2) INFORMATION FOR SEQ ID NO: 3124:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3124:	
	TATTGCAAGA AATGAACTGC TGATTTTTAT AGTTTTAGTG GTCATAAAAT GCTTGGACCA	60
40	ACAGGTATTG GCGTATTATT TGGTAAACGT GAGTTACTAC AAAAAATGGA ACCGATTGAG	120
	TTCGGTGGCG ACATGATTGA TTTTGTAAGT AAGTATGATG CAACATGGGn CTGATTTACC	180
	TACTAAATTT GCAGGTCGGG TTACTCCCAT TGAATTGGCT CCAAGCCAAT TGGGGCTTGG	240
45	Cnaggaagcc T	251
	(2) INFORMATION FOR SEQ ID NO: 3125:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3125:	
	CGGTTAAGTA ATACAGGATG TTCTCTAATT ACTTCTTCCA ATACGTCCCA AACTTCATCA	60
5 .	TCCATACGTT CGATTTTACT CTTCGCATTT TTAATGTTAG TTGCAATTTC ACGTTGAACT	120
	AATTCTTTCA TTACGAATGG TTTAAATAGT TCAAGTGCCA TTTCTTTTGG TAAACCACAT	180
	TGGTACCATT TCCANGCTTG GACCCNACGG CAATTACCTG AACGGTCCCG GAA	233
10	(2) INFORMATION FOR SEQ ID NO: 3126:	٠
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3126:	
	AATAGATTCC CGGGATTCAA AAGCATGGAT GTTGTACCTT GTTGTACTCC ATTGGCAATG	60
	TACTACCTGA TGTCAAGATG AATTATCCAT CACTTTGTTG ACGTGCTTTA TTTTACAGCA	120
25	TCAATTTGAT CCAATCGAAA TACCAGATAA CTTAGACTGT GTCCCAGTAA AATAACGATC	180
	AATCACATCA TGAGACAAGC CAATCGCTTC AAATATTTGT GCCCCTTGAT AACTTTGCAC	240
30	TGTCGAAATT CCCATCTTAG CCATTACTTT AATGACACCT TCTGACAATA CATCCGTATA	300
	TGTCLTAACA TTATCGACAA CGGTGCCTTG TAACCCTTCT GTCAATGTCA GTTGTTCAAC	360
	TGTACGTTGC GCTAGGTATG GCACAATTGA TTCGCGCCAT ATGCGAGTAA ACA	413
35	(2) INFORMATION FOR SEQ ID NO: 3127:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3127:	
45	GTCGTAAATA CTGAACAAAA ATCACGGCAT ACTGTGCAAA TTTnTGAAGA AGCTCAAAAA	60
	CTATTACAAG CACATCATGC GATTGTAGAA GGATATATCG AATCAGCTTT AGAGCGTGCG	120
50	TANATCATCT TCTACATACA TAGGTAATTT TATGGCGATT CCTCATGGAG CATCCTGTAA	180
,,,	AAAGTTTTAC AATCACATGT GCTTATTTT	209
	(2) INFORMATION FOR SEQ ID NO: 3128:	

(A) LENGTH: 204 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3128:	
1Ò	TAAATTAATG GAGTTTGGTA CACGTCGTCG CAAGAAATTG ATGCAGTGGG GCGCTAGAGC	60
	TGCTTACATC GGGGGCTTTG ATTCTACAAG TAATGTTAGG GCGGGGAAAT TATTTGGTAT	120
	ACCTGTGTCT GGTACACATG CACATGCATT TGTCCAAACT TATGGAGACC AATATGTTTG	180
15	CCTTChaaaa ATATGCTGAA AGnC	204
	(2) INFORMATION FOR SEQ ID NO: 3129:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3129:	
	GAAATACCAT TAATATAATA GTCGGTAAAT TAAGAAACGT GGTGCGCGAT TCACAACAGA	60
30	AATCTTAACT TATCGAAGTA TCCTGTTTTC TCTGCAACAC CAATACCAAT CATCACTGCT	120
	AGTACTAAGC CTAATGCGGG AACTCTGAGA AATTTTTAAT CGTATTCTTC TTATCATCGT	180
	AAATCCATCT GGCTATTATA TTTTAATATA ANGGTTTGAG CTACCGGATG CTAACGNAC	239
3 5	(2) INFORMATION FOR SEQ ID NO: 3130:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3130:	
	ATCACAATAA ACATTTTAAA ATTCTTGTTA TCATAATCAT TAAAAGGTAT TAACCTTAAT	60
	AATATATTCT CINGTCTCAA CCTTAATCGT ATACTTCAGA CGTCTGTTTG TAGACAATAA	120
50	AGTCATTCAC GTCTTCATAT GTCATCANAT GTTTATCATG ATATGATGAT ATATAATCGG	180
	TATATACTGT AGATATTACA CATAAGAGAG GATATAATAT GAAAAGGTCA TTAAGATGTG	240
	CTGAGAGCTG TGTATCAGT	259

2457

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3131:	
10	TGTGCCTGCC ATTTTGCAAT ATCTTCATCT TCACGTGGTA ATGCACAAAA ATGTTTACCA	60
	TGTGCATTCA CAACTTCAAA AATATGTTGA CATGTGATGT TACTTGATCA TCACGCGTTG	120
15	CCATGGTATG CAAGTGCTGC GATAAATCTG CGGCACCTTC GACTATCATG CTAACCTTCG	180
	CTTGTmnATA TCGCAATGGC ATACCCCTTC AACATCTTCT ATCATGG	227
	(2) INFORMATION FOR SEQ ID NO: 3132:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3132:	
	ATCGCAGTGA TGTNATCATC TGCTGCTGTA GCNTAGCAGG TTCAATTTCA TTTATCGGAT	60
30	TAATGGGTCC GCATATTGCC AAACGTATCG TTGGACCACG TCACCAGTTG TATTAACCAA	120
	TTGCCATTTT AGTAGGGGCA TGTATACTTG TAATAGCTGA TACAATTGGC CAAAATTGTA	180
<i>35</i>	TTACAACCAG GTGGGGTTCC AGC	203
	(2) INFORMATION FOR SEQ ID NO: 3133:	
4 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3133:	,
	AGCATTTAGT TTAGCGGCAG TAGCTGCAGA TGCACCGGTA GCTGGCACAG ATATTACGAA	60
	TCANTTGACG AATGTCACAG TTGGTATTGA CTCTGGTACG ACTGTGTATC CGGACCAAGC	120
50	AGGTTATGTC AAACTGAATT ATGGTTTTCn AGTGCTAATT CTGCTGTTAA GGTGACACAT	180
	TCAAAATACT GTACCTAAGG A	201

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3134:	
	CATTTGTAAC TGTTATTGTT TATAACTTCT GTGTGAAGCG CAATATTACA ATTAAAATGC	6
	CGAAAGAGGT ACCGNCGAAT ATTTCACAAG TATTTAGGAC TTAATTCCAT TTTCAGCGGT	12
15	AATCATCATT CTTTATGCAT TAGGATTTMG TCAATCGCAA CCAGCTTTAA ATCAAAATGT	18
	AGCGGAGGTA TTTTAAAATT ATTCGGT	20
	(2) INFORMATION FOR SEQ ID NO: 3135:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3135:	
	AACACCTTTA GGTCGTGCAG GTCAACCTGT TGAGTTATGT GGTACTTATG TGCTATTAGC	60
30	GTCAGAAGGA ATCAAGTTAT ACAACCGGAC AAGTnTTCGG TGTTAGCGGT GGAGTGCAAn	120
	TAGGTTAGGT TTGTATGAGC TTTTAATTGA GCACCATAAT GTTAATTTAG TTACTTCAAT	180
35	CCATTAAATT AAATGAATTG GTG	203
	(2) INFORMATION FOR SEQ ID NO: 3136:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3136:	
	CACATCCAAT GCANTCTACT AAATCAGACA CACCACAATC TCCAACCATA ANACAAGCAC	60
	AAACAGATAT GACTCCTAAA TATGAGGTTT AAGAGCGTAT TATACAAAAC CGAGTTTTGA	120
50	ATTTGAAAGC AGTTTGGATT TATGCTCAAA CCATGGACGA CGGTTAGGTT TATGATGTTA	180
	TTCCAATAGG TTCACTATAA ATAGCTTAGT T	211

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3137:	
10	ATTGGGAAAT GTTCCCCCAC CACCTACAAT TTGTGAATAC AAACAATACG TATTGCAATG	6
	GACTTTACCT GGGCTTACCA AGTGAATGTA TACGTCACGT ATGATACGAT TGTAGTTGNA	. 12
15	ARATAATGCG AACAGAAAAT CGTTATAAGT ACAAATAATA CAGGTGACTC AACTCCTGCT	18
	TTTAGATTAA CAAATCTCCA ACCGATACAA TGAGTGCTTG CAACATACCA AGCATTATAA	24
	AGAATCCTGC CTTACCTAAG	26
20	(2) INFORMATION FOR SEQ ID NO: 3138:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3138:	•
30	CATAAGCAAT TAATGACTTC GTTAATTGCG AAAGTGTATC TTTTTGATTA TCATTCGCTT	6
	TTGCATCTTC AAGCTTTCTC ACATCTGATT TGACAGCATT ACTTTCACTA TTATCTTCAA	12
35	GCGATAATTT CTTAACTGCA CTTACCACTT GCTCAATTGC TTCTGCnTAT TGTCATTCGA	18
	TATCGGAGTA GTAGGAAGTG CnGAATTCGG CA	21
	(2) INFORMATION FOR SEQ ID NO: 3139:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3139:	
	TATTGGTTTT TATGCGAATA TGGATAATAA AAGGTCTCAC GACATCATTG ATAAATCGCT	6
50	TGANATGTTG CGACGCTTAG ATCACAGGGG CGGGGTCGGC GCAGATGGCA TCACTGGTGA	12
	TGGCGCAGGT ATTATGACTG AAATACCTTT TGCATTTTTC AAACAACATG TAACGGAGGA	.18

	GCACCTGTTA GAAAAGAAGG GAAATTACCT CGTGAAGTCA TTCGTTATGA GTATGACCTA	300
•	GAATATGGTA CAAATGTTTT AACAATGGCA CAAAGATGCA ATTGAAACCA GGTmCAACGT	360
5	GTGTTAnTAC AGG	373
	(2) INFORMATION FOR SEQ ID NO: 3140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3140:	
	AGCCTTATAA TAAAGTGCCT TTCATAGCAA TAAGTTGTGT CCATTGACCT ATTACATTTT	60
20	TCGTTTTGTA CATTAAATAT AAGAAATACG GTGCACCAAT AATTGCTACG ACAATACCTG	120
	CTGGAACCCC CACCTGGTTG TAATACCATT TTGGCCATTT GTATCAGCTA TAACCAAGTA	180
	ACCNTGCCCC AACTAAAATG GCATTGGGTA AAACCACNTG	220
25	(2) INFORMATION FOR SEQ ID NO: 3141:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3141:	
	GAGGAGCAGC ACAACCAAAT ACACAACCAG CTGGACAAGG TGATCAAGCT GATCCGAATA	60
	ACGCTGCACA ACACAACCTG GAAATCAAGC AACACCGGCA AACCAAGCAG GTCAAGG1AA	120
40	TAACCAAGCA ACACCTAATA ATAATGCAAC ACCGGCAAAT CAAACACAGC CAGCGAT	177
•	(2) INFORMATION FOR SEQ ID NO: 3142:	
45 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3142:	
	CTTTTTTAGC ATTTGGTTTA ACAACCNGGT GTTGCAGTAT CCCCACTTAA GGTCTGTATA	60

	ATTTCATTTT TATGTTCCTC GATAACTTGT ATTGCTGCTT GTTTTCCTCC ATCTGTCAAT	180
	CCATCATTTG ATTGAGAGAA nCAG	204
5	(2) INFORMATION FOR SEQ ID NO: 3143:	٠
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3143:	
	GTGATGCCAT ATAAATTGGC AATAATGGCA CAAGTACTGT CAGTCCAGCA ATCGCTATAA	60
	ACTGACTGAG CCATAAAATG CGAAAGTTAC TGCGCCATAT AGACTGATTA ATCATATGTC	120
20	ACCATTGGAT TTGGTACGGT AGTTAAACCT GAAGGCATAC TACCCTCCAC CCACTTATTC	180
	AACGTTGGAT NATAGGCAAT GGGTAATTAA AAATTTTGTT TTTGAAATGG GCCCACGGGC	240
25	TTGTTTTAAT CAAAATTAAA AAATTGTGGT nCTTGGACC (2) INFORMATION FOR SEQ ID NO: 3144:	279
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 514 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3144:	
	TGACTTAATC AAAGCATTTG ATCAAAACAC CAGAATACCA TTATTCTTTA ATATGTTGTA	60
	CAGTAAACTC THTATTATTT GTTGCTGTTG GATCCATTGT TCGTCTTTCA ACAAAAACHT	120
40	GACCCAGAAT GAAGTCCGAT AGAGTCAACA AAGCLATAGT ATTTGTAACC ATCTTTTAGT	180
	TGATAAATGC CACGCGCATC TGTTATTGCG TCATTTTTAG GTACAAATTG AATTTKGAGA	240
	TTTCTCaCaT TATCAGGTAC TTTAAATAAA CGCAAAGTTG GACCGNCTTC AACAGTCTTT	300
45	TCAGCAATCG TATCATTAGT ATCAGCATTT TTGATAATAA CATTTGTTGC GCCTTGACCG	360
	TTTTTAGTAG TCATTGTATT AAATCAAGGT TAATTCAGAA TTCGGATTTA CTGTTAATGC	420
50	TTTCTCGATA CCATTAAAAT CGCCATGGTC ATTCGTATCA GTTCCAGTAT ACGGCCTAAT	480
	GCAATACATT TGCCTGTGCn TGATAGTnCT TATT	514
	(2) INFORMATION FOR SEQ ID NO: 3145:	

(A) LENGTH: 302 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3145:	
10	ATTCAGACTT TGCATGTGGA ATGGCCACGT TCATGCCAAT AGCTGTCGTA CTCCCATTTC	60
	ACGITCTAGI ATTGCATTIT TTAAATGCGA TGTGTGCTCT ACATAACGGC AAATTTTAAG	120
	TTTTATGAAT CAACATATCC AATGGCTTCG GTTTCGAGAC ATGTCCGTGG ATTCAGTAAT	180
15	TAACCATAGT TTGGTTGGAT CCAAAACCAT GAGNAGGGTT TAATGGAGGA TGTNGAATGG	240
	TTChCCGGTG GTTAATCCTA CATGGTCCAC CCTCCTGGTA ACCATGGTGG TGGTAATAAC	300
	cc	. 302
20	(2) INFORMATION FOR SEQ ID NO: 3146:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3146:	
	CAGGAATAGG ATCATTTGCA TCCATAGCTT CACTTATTTT TTCAGAAGCT AGCGTACAAT	60
	CATTTAAATC TACGCCACCT TCTTTATCAA TAGAGATTCT AAGAAAATGA TCTCTACCCT	120
<i>35</i>	CTTTGACCAT ATTCAACGTC TACAAGTTCC AAAATTCAAG GTCTTCCCAT AATTGGGTTT	180
	AACCAATCCA CTTTCTACCT GGTTTCCGGT AAATTTTTAC CTCCATACCA GGGnCCTCCC	. 240
<u>.</u> ;	CCTTTTTGG GCCAAAATAG GAAAAANGAG GCGGGGGAAA TCCTCCCCCC AATTCCHTTC	300
40	CTGGCCCTGG AGGTTTCCAC CTAAATTTTT TT	332
	(2) INFORMATION FOR SEQ ID NO: 3147:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3147:	
	GAGAGTGGTT AACAAGCAAA TAGAAATAAT TAAAAATGCA GATGCAGATG CATCGGCGAA	60

	CHCCAACAAA TGCAGAAGTT GCTGAATTCC AAATGTAACG ATACCTGCCC ATGAGCGATG	180
	TGCTCAGAAT GATCAGAGCT AATG	.204
5	(2) INFORMATION FOR SEQ ID NO: 3148:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3148:	
	CAACCGGGAC AGGTGGGGTT ATTGGACGTT ATTTTTGGCC TTTGGATTTT AAGATATTGG	60
	TCGAAAAGAG ATTACATAAA ATTGTGGCCA AATGCGGATT GCATATTATT GTAACGCCGn	120
20	CTATTGCATT GTTGATTGTT AGGNCTATTA ACTATCTGGA TCTGTATGCC ATTAGCCAGG	180
	TTTTGTTTCA GACAGTTTAG TTTCAGTAGT TAACGGA	217
•	(2) INFORMATION FOR SEQ ID NO: 3149:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3149:	
<i>35</i>	CTATTATTAT ATTCCGCGGT GTACGTATAT GTGCTACGTT ATCTTCGTTA ATTGTACCGA	60
	TTATGGCTAT CATTTACATT GGTATGGTTT TAGTAATATT GCTATTTAAT TTAGATCAAA	120
	TTGTTCCTAT GATAGGTCAC GATTATTAAn AGTGCATTTG GTCATCGAAC AAGT	174
40	(2) INFORMATION FOR SEQ ID NO: 3150:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 181 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3150:	
50	GGGACCGAAT TGACTTCAGC ATTACCAGCA AATTGATTAA THTTGTGGGC TGGTATTGGC	60.
	TCTGGCGGTA CCATTTACAG GTACCGCACG TTATTAAAGC AACATCACGG GCAATGTTAT	120

	A	181
	(2) INFORMATION FOR SEQ ID NO: 3151:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
10	(a) Islandi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3151:	
15	GTTTTAATTG AGCGACATAC TCTTCTGTTA GCTCTGCTAC TTTTTAAAAT AGAGCGATTG	60
	ACATCAAACA TAACTGCTAA ACGCTCAACG TCTGCCTTCG TAATGGCTTT TGTAGAAATT	120
	CTAACTAAAT AATTTCGAAT GCTATCATTG GTTGTnTCAA CAGCTTGATG CT	172
20	(2) INFORMATION FOR SEQ ID NO: 3152:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3152:	
30	ATGGACGTTG AGACATTTAT AAGCGATATA GATTTCGCAT GTTGCATTTA TTAAACCTAA	60
	TAATGGTAAA CGACAAGTGT GACTGTTACT GGACTTTAAT GAAGGTAGTA ATCAGAATGG	120
35	AAATCAACCA AAAGTAGGTA TTTGAATnTT GGGAATAATG AGACATAGCG AGAGTGTATA	180
,	TGCAATACGA CAGTACTHTA AATTAAGAG	209
	(2) INFORMATION FOR SEQ ID NO: 3153:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3153:	
	TTCTCACAAA GCGCTCAGTT GAAGTAAATC CACCTGGACA ATCCAAATGT ACCTGCTTCA	60
50	TTGCCTAAAG GTTCAATCGT TANACCTTCC AATAAATTTG CTGTTGCTGG ATAAGGAGAA	120
	ATTATTGGTA TATTGTCTTA AATTACTATG ATGCCAATTT AAGGTCTGGA TGAT	174

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3154:	
	GGATCACATC GTTCATTTAC ACAATCTATT AATATTCAAT GGCACAATAT AGTGTTTATG	6
•	GCATTACGGA TATGATTTAG TAGCHCACCA TTATTAACCG ATCTCTATCT GTTAAAAGGA	120
15	ACTTAAGAGC AATGTTTGCG CATCATCATT TTATGTTGCG TCTTTGCACG AGTTTTGCGA	180
	AACTITACAA TATTIGITGC GGATGATTAT TTAACTITTG GAGAATGITG ATGGCACAGT	240
	CCACTATANC AATCAGTATC GCAATGG	267
20	(2) INFORMATION FOR SEQ ID NO: 3155:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 490 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3155:	
	AATTAAAAAT CAAGCAACTG CTGCAAAAAT GCAAGATCAA ACTGTTCCTC AAGAAGCAAA	60
	TTCTCAAGTA GATAATAAAA CAACGAATGA TGCTAATAGC ATAGCAACAA ACAGTGAGCT	120
35	TAAAAATTCT CAAACATTAG ATTTACCACA ATCATCACCA CAAACGATTT CCAATGCGCA	180
	AGGAACTAGT AAACCAAGTG TTAGAACGAG AGCTGTACGT GTTLAGCTGT TGCTGAACCG	240
	GTAGTAAATG CTGCTGATGC TAAAGGTACA AATGTAAATG ATAAAGTTAC GGCAAGTAAT	300
40	TTCAAGTTAG AAAAGACTAC ATTTGACCCT AATCAAAGTG GTAACACATT TATGGCGGCA	360
	AATTTTACAG TGACAGATAA gTGAAAYCAG GGGATTATTT TmCacGAGTT ACCAGATAtT	420
	TACTGGTAAT GGAGACGTGG GATTATTCTA ATTCANATAA TACGATGCCA ATTGCAGACA	480
45	TTAAAAGTAC	490
	(2) INFORMATION FOR SEQ ID NO: 3156:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3156:	
	CCTTCAGTAC CTTGTAATAG TTANTTAAAT GTTCCGATCA TCGTGTAGTG TGATTCATCA	60
5	TACCGGCCTT TTCAATTGAA TACGATCTAA ACCGTTTCGT CAGGTGCTAG TAAGTTACCT	. 120
	TCGCCACCTA AATAAGAAGT TCACTCGTTA CGATTTTTTC AGATAGCATC ATTGGTGGAT	180
	TCGTAACTTG TGCAACAGCT GTTTAAGTAT TAATAGTGAT TCGGTCGTCT TCACATGCAT	240
0	TGGCGCACAA TCCnTGCACC GT	262
	(2) INFORMATION FOR SEQ ID NO: 3157:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3157:	
	ATGGTAAAAA TTGCACTATC TGCTCGGGAA ACGATTTTGC ATAACCTATT GTTAATTTTT	. 60
5	TACCTGTTGA TTTAGCTGTA TCTGnCCATT TTTTGAGCTT CTGCTGTCGT TTTAGCCATT	120
	GGGTTTTCAC ACATCACATG TTTACCAGCA TGCAACCCTG GCTACAGTAA	170
	(2) INFORMATION FOR SEQ ID NO: 3158:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3158:	
o	CCAGGCAGAG GAGCAGCACA CCAATACACA ACCAGCTGGA CAAGTGATCA GCTGATCCGA	. 60
	ATAACGTGCA CAAGACAACC TGGAATCAAG CAACACCGGC AACCAAGCAG GTCAAGGAAT	120
	ACCAAGCAAC ACTAATATAA TGCACACCGG CAAATCAACA CAGCAGCGAA TGTCCAGCAG	180
5	CAGCGAACCA GCAGCACTGT AGCAGCAACG ACAACTCAGn CCAATGTAGC ATATGGTGAG	240
	GCAGTTTATA GACATACATT GTGnCCTGCA TTCACAGTGG ATAGCAGGTC CACTGTACTG	300
	TACAGTAAGT An	312
0	(2) INFORMATION FOR SEQ ID NO: 3159:	-
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3159:	
	AATCACATCA AAAACTTCAA TTGTTTACGT TGGCAACTAA CTTTATGTTA GAACGCACAC	60
	AATATCTAAT GTTTAAAATC TATCGTCGCA AGATGCTTCC TGnTAATTAT CAGTGCCATT	120
10	TTCGATTGGG TTATACAATC TAGTAATCGC ATGATAATTT AATGCTACAA G	171
	(2) INFORMATION FOR SEO ID NO: 3160:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3160:	
	CTTGTTCATT TAATCCATAT AGTATACGAC GATGTACTGG TTTTAAACCG TCACGAACAT	60
25	CTGGCAATGC ACGAGCAACG ATAACACTCA TCGCATAATC TAAAAATGAT TCACGCATTT	120
•	CACTGGTAAT ATTTCGTTCA TTAATCHTGA TTGAGGGAAT TCCGCCCATC CAGANGTCCC	180
30	CCCTCCAAAG TTCAGTTCCA CAGGGGCTAG A	211
	(2) INFORMATION FOR SEQ ID NO: 3161:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3161:	
	GCACAGGTAG CGGTAGTGGC GGTCGTATGA TGACTTTGGT AATCTAAAGC AAAATGTACG	60
45	ATAATAATAA ACGTCGTTTC GTTTCTCTGA TGTAGCAGGG GCAGTGAAGA AACAAGATTA	120
	TTGAATTGTT GATTTCTTGA AGATATAAAA ATTCAAGAAT GGGTCTAGGA TTCCTAAGGT	180
	GTCTTCTTTT GGGCTCAGTA CGTAAACATA TTGTAGAGCG TGCAGTGAGT GGCGCACCAT	240
50	CTCTTTTGGG TCAGnTTTGG AGTTTTGTTT GTCGGCTGTC GGATTnTCGT ATGTAGGAAC	
	GGCTGTTCAC TTnCGTGGAT G	321
•	(2) INFORMATION FOR SEQ ID NO: 3162:	

_	(A) LENGTH: 159 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3162:	
10	AACATTTGAG CAATATCAAG AAACATTAGA GTATATTTTA TCCCATCATG TAACTCGTAA	60
,,	TACAGCAATT ATTGCTTTGG GTGGTGGTGC ACTGGTGATT TTGCTGGGTT TATTGCGGCG	120
	ACACTITIAC GAGGCGTGCA CTTTATACAA GTGCCAnCG	159
15	(2) INFORMATION FOR SEQ ID NO: 3163:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:	
25	GTCAGTTATG GCAAGTGCAT CAACATTTTC AGACACAGAC AAGTCTTACG GCATCTTCTA	60
	TTTTTAAGCT TGAAATTTAA CAAATCATAA GCCGTATGAA TATTTAAATA TGCCACCATG	120
30	ATTGAATGGC CCCTTTCTAT TAGTTANGTT TTGTGCG	157
50	(2) INFORMATION FOR SEQ ID NO: 3164:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3164:	
	TATAAAATA TAACGCGGAC AAAAAAGTGA GTTATTACTG ACAAAGTATn TGAGATTGTA	60
	ACAGGATATA TGAAGCAATA TCAGTTGATC CAACTGTCAT AGGTATTTCA TCAGCAGGNG	120
45	TTGTTGATGA ACAAAAAGCG AAATTGTATA GCAGGCCAAC ATTCCGATTA TAAAGGTATA	180
	ATTITAAGGA TTATTAAAAT CATGTCTCTT ATGTCA	216
50	(2) INFORMATION FOR SEQ ID NO: 3165:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>		

	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3165:	•
5	AGAAACACTT CTATTGAATC GTCTTACTGC TGTTCTCTAT TTATAACACT TCGTATTGAA	60
	TGAATTCATT ATGCCTATTT GACACATTAT TGAAGTTTTC CTAATGCCTG GATCCTTTAT	120
	ACGTTACGGC TTCGTGCTAT GTTTTGGTAC ATAAAGCTTT GACATATCGA DATTC	175
10	(2) INFORMATION FOR SEQ ID NO: 3166:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(5) 10102011 1211002	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3166:	
	ACTGTTACAA CAAATTAAAA ATACAACAAG CGAGATATAG TTATTGTTGC TGGAnTGTAC	60
	ACIGITACAA CAAATTAAAA ATACAACAAG CGAGATATAG TIATTGITGC TGGATTGIAC	80
	CAAGTAGTAT TCCAAGCGAT GCTATGGCAA ATTGCACAAA TTACAGCACA GACAGGTGCT	120
25	AAATTAGTAG TCGACGCTGA AAAAGAATTG GGCTGAAAGT	160
	(2) INFORMATION FOR SEQ ID NO: 3167:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
30	(B) TYPE: nucleic acid	
Y.,	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
05		
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3167:	
	(MI) bagoanca babbani IIIban bag ib not beet	
	TGTGGGGGAA ACCTGCACAG CAAAAACTAA AGCTTATCGA TACATCTAAA CATTGTATTA	60
	management of confidence campaigned and management of the confidence of the confiden	7.20
40	TAAAATCAGT GCATCCTAGT CCACTGTCTG CATATAGAGG ATTCTTTGGA TCAAAACCGT	120
	ATTCCAAAGC GAATGCCTAT TTAGCGTCAG TAGGNA	156
	(2) INFORMATION FOR SEQ ID NO: 3168:	
45	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3168:	•

	GTGGCGAGAA ATACCGCAAG CATAAAGATA TCTTTGATCC AACTTACCAA CAGATCAACG	120
	GAAAAGTACC AGGTAACCAG GAATCAAGAT CCAGACACAG GAAAAGTGAT CGAG	174
5	(2) INFORMATION FOR SEQ ID NO: 3169:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3169:	
	TCAAACGGGG TCAATTTCAA ATGGAAAAAT TATACCGCAT CTTCTCCTGA TAACTACGTG	60
	ACCITATCTT CTTTATATTT GCAGACCACG AACATTCAAA CTGCATGCTT GCTCGATTGG	120
20	CAATGTCATA TAACTAGTAA CATGATCATC nCATCAAATT TAGTATGTCA AATGTCCCAA	180
	TCANTAATTT GATCGGTGTT GCTCAATTGA TTA	213
	(2) INFORMATION FOR SEQ ID NO: 3170:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3170:	
<i>35</i>	AAAGCACCTT TTCCTAATGA AAGTTGTGCT ACTGGTATCT GTGTTTGATT TACAAAATCT	60
	TCTAATTCTT GATGGAGGTG AAAACTGTTA ATTTCATGTC CAGTAATGAT GATAGGCTGC	120
	TTCGCTTGAT GCAGTTTAGT TGCTAATAAC TCTATATATG TTGATGCATC CGTATATTTA	180
40	GTTGCCGTCA CTTCAAATGG TGTCGGTATC TCAATTTCAG AGATTGCGAC ATCGATTGGT	240
	AAATGTAAAt GAACTGGGCG TCTTTCGGCG ATTGCTGTAT TAATTAAACG TGGTATTTCG	300
	GTTGTTGCAT TTTCAGGTGT GATATAACCT GTGCACGnTT ATATGTGCAA ACATTTTTCG	360
45	ATAGTCGTCA AATGTACCnn	380
	(2) INFORMATION FOR SEQ ID NO: 3171:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3171:	
_	TAGAAGGTAA GAAGGATCCT ATCGGTGCAA TGGGATATGA TGCGCCAATT GCAGTGTTGA	60
5	ACGAGCGACC AGAATCACTA TTTAATTACT TTAAACAGCT GTTTGCACAA GTTACGAATC	120
	CACCAATTGA TGCGTATCGT GAAAAAATCG TAACGWGTGA ACTTTCTTAT TTAGGTGGCG	180
10	AAGGTAACTT ACTAGCACCT GACGAAACGG TTTTAGATCG TATTCAATTG AAAAGGCCGG	240
	TATTGAATGA ATCACACTTA GCAGCGATTG ATCAGGAACA TTTTTAAATT AACTTATTTA	300
	TCAACGGTAT ATGAAGGGGG ATTTGGGAAG ATGCGTTAGA AGCATTAGGC CGAGAAGCAG	360
15	TGGAATGCTG TTAAGCAAGG GCGCTCCAAA TTCCTAGTGG T	401
	(2) INFORMATION FOR SEQ ID NO: 3172:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3172:	
	ACATAATTTA AAATAATATT ACATTTGTAA TGGnCACCAA GTAACGTTTC GGTTGCTTGG	60
30	TGTTTTTTGG TATGAATTAC TTTCTGTTAC AAAACAATCT AAAGCGTTCT GTTATGTTTT	120
	ATTAGATTT AATTACAAAC GGAAACTAAA TGTAATAGAA TAAACT	166
	(2) INFORMATION FOR SEQ ID NO: 3173:	
35 40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3173:	
45	ATAATGAGAN TGTTGTACGT TATGGTGGTG GAAGTGCTGA TGGTGATTCA GCAGTAAATC	60
	CGAAAGACCC AACTCCAGGG ACCGCCGGTT GACCCAGAAC CAAGTCCAGA CCCAGAACCA	120
	GAACCAACGA CCAGATACCA GAACCAAGTA CCAGACCCAG	160
50	(2) INFORMATION FOR SEQ ID NO: 3174:	
<i>EE</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3174:	
	CTTTATATAA AGAAGGAATT ACTAAACATA CAGTTAGATT ACTTCATGCA ATCGAATTAG	60
5	AACGTTTGAA TTTAAGCCGT AGATTAGGTT TTGAATTATC AACAGCNAAA GAATCACGTA	120
÷	TTGAACGGGG GTTATTTAGA ACGTGATAAA GAAGGATG	158
10	(2) INFORMATION FOR SEQ ID NO: 3175:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3175:	
20	TATTTGAAGA TGGCTGTGTA CAAAAATCGG TGTTACGTGA TCATGATACT GTCAGAATTT	60
,	ATAAACCATG GCTAACAGCA CATCAGCTTT CATTGCCCNA GTATGTCGTC AGAGAAGATA	120
	CACCTAATCG CTAATTAATG AGGTTTGGAA ACAT	154
25	(2) INFORMATION FOR SEQ ID NO: 3176:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 472 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3176:	•
	AGAAGGTATT TTAGCTCAAT CTCCAGGTCT AAAGGTTGTT ATTCCTTCAG CCCATACGNT	60
	GCGAAAGGTT TATTAATTTC TTCTATTAGA AGTAATGACC CAGTCGTATA CTTAGAGCAT	120
40	ATGAAATTGT ATCGTTCATT CCGTGAAGAA GTACCTGAAG AAGAATATAC AATTGACATT	180
	GGTAAGGCTA ATGTGAAAAA AGAAGGTAAT GACATTTCAA TCATCACATA CGGTGCAATG	240
•	GTTCAAGAAT CAATGAAAGC TGCAGAAGAA CTTGAAAAAG ATGGTTATTC TGTTGAAGTA	300
45	ATTGACTTAC GTACTGTTCA ACCAATCGAT GTTGACACAA TTGTAGCTTC AGTTGAAAAA	360
	CTGGTCGTGC AGTTGTAGTC AAGAAGCACA CGTCAAGCTG GTGTTGGTGC ACAGTTGTAG	420
50	CTGAATTAGT GACGTGCATC CCTTCATTAG AANNCCTATG GAAGAGTGCA CA	472
	(2) INFORMATION FOR SEQ ID NO: 3177:	

5	(A) LENGTH: 150 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:	
10	TGAAAGCTGG CGAATACAGT GATTGTCATG ATGCGGATCT ANTTGTCATC TGTGCTGGTG	60
	CTGCACAAAA ACCTGAGAGA AACACGTTTA GATTTAGTAT CTAAAAACTT GAAAATATTC	120
	AAATCAATTG TTGGTGAAGT AATGGCATCA	150
15	(2) INFORMATION FOR SEQ ID NO: 3178:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) 10:02001. 12:001	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3178:	
	TTACTCTATC TTGATTTGAC GAAATACTAT TANGCTAATA TCGATATTTT AAAAACGAGA	60
	TGATGTTCCA AAGCAAGCCA TTTCGATGGA CTGCTAATAT TCTTCAGCCA AACGTATCAT	120
30	TTTACTCGCA TTTGGTGAAA AGAAACGGCT GCTATTACAC ATTTAT	166
	(2) INFORMATION FOR SEQ ID NO: 3179:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3179:	
	CTTCGACTCT AGAGGATCCC CGCGCTCAAA TTCTAGTGTT AGATGATAGT GGATTAGTTG	60
	ATAGCAATGG CTTTGCAATG CCGATGTTAC TCGCAATAAG TCATGTGCAT CAATTACTTA	120
45	TTAAAGCAGA TTTACGTATG TCTACAAGTT TANTTCGCTA AATCTGGTGA	170
	(2) INFORMATION FOR SEQ ID NO: 3180:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3180:	
	AGCTAAGGTT GCCnTGGGCG TTGCCCCAnt TGGTTAGTCC AGGTGGTCGC GGTGGCCATC	6
5	GGTGTATTCG CCAGGTCCTT CAGCCAGGGT TTTTACTATT ATATCCAGTT GTAGCATTCA	12
	TGATTGGGGC GATTCGAGAT AGATTCATCA ATGAAATTAA TTTCTGGATT TTATTCGTTG	18
	GTATTTATTT GGGTATACAT AAGTATGGTA CATGATAGGC AGATATACAA CATTACAACA	24
0	TTCATTCTAC TATGCTGGAA ATAACATGAC AGTGATGACA CTACTATCCC CGTCGCA	29
	(2) INFORMATION FOR SEQ ID NO: 3181:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3181:	
	CACTAGGTAC CCCAAAACGC CAGAGGAACT TGGTTAAATC GCACTTACTT GGTGGCTCCA	6
?5	ATCAACTGGT ACTTCATAAC GTTTGGCATC TTCGCCACTT CACCACTATT ACTCTTTCCA	120
	CCTAATTGGT TCATGGCTTG TGCTAACGTT TCATGTGCTT CCGCTGAAAT CGATCCATAA	180
*	CTCATCGCCC CTGTATTAAA GCGTTTGACA ATGTCACTTA CCGGTTCAAC TTGGTCGATG	240
30	TCAATCGGTG TACATGCTTT AAATTCAAGT AAATGTCTAA TGTGATCTGT TCTATTTTTG	30
	TTmCACCGnT TmCAGAGTAT GCTTTAAATT GCGCCATAGT CCATTTTCT	349
15	(2) INFORMATION FOR SEQ ID NO: 3182:	
85	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid	
ю	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3182:	
5	TACCAACACG TACACCTTCT AAAATAACTG CATTTGCACC GTnTTAATAC ATCATCCTCG	60
	TTTATAACCG GTGTAAGCAC TAGGGGGTTC AATCACACCT GCTAATACTG CGCCAGCCCT	120
	ACATGTACAT TTTTACCAGT TGTAGCACG	149
О	(2) INFORMATION FOR SEQ ID NO: 3183:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

	·	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3183:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:	
	GCGGTGCCGG TGTTGCAATT GGCGCAGTGG TGTTGGTAGC ATGTGGTCTT TCAATCAATG	60
10	TTCAATACAC CAGGAGATCC GGAAAAGATG CGTATGAATT TTATGGTAAG TGCACCAGGC	120
	ATTACCACAC CACGCAANAA CATGCAT	147
	(2) INFORMATION FOR SEQ ID NO: 3184:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3184:	
	CAGCGATATG TTGGCGTTGA AAATCTGCAA TTTGTTCATA ATTCTCTGTT AAAGAACGAC	60
25	TTAAATTGAT AAAAATGGAT ACGATCTCTT GGTAAACAGT GACATTTTCT CAATCGGCGT	120
	ATGATGTTTG TGGCACCGAC CATCGAGAAC ATGAAAATCT CATGTCCCAC GCTAGTCGnC	180
30	(2) INFORMATION FOR SEQ ID NO: 3185:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3185:	
40	GGTAAATACG TATTAATCAG ATTAAGATCT GGTGAAGTTC GTATGATCTT ATCTACTTGG	60
	CCGTGCTACA ATCGGGnCAA GTTGGTAACC TACAACACGG GTTAGTTAAC GTTGGTAAAG	120
	CCGGCACGTT CAAGATGGGA AAGGTATCCG	150
45	(2) INFORMATION FOR SEQ ID NO: 3186:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2476

	GAATTTDAGG TGAATCAGAA GATTAACGCT GTTGCGTCCT AAGCTAACAG ATACTGGTTC	60
	GTCAGTTGTC GTTGAAAAAG CGAATGAACA ATTTAATAAA ACCGTAACTC GAGCATTATT	120
5	AGAGGAAGCT AACCAAAGCA GGTTTA	146
	(2) INFORMATION FOR SEQ ID NO: 3187:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3187:	
	AAATTGGCGA GTATGTTGTT ATTGGGTCAG TACTCTGAAA TTAACAATAG nTACGATTGA	60
20	AAATGGTGTC ATGTATTCAA CAGTCTGTTG TTAATGTATG CTAGTCGTGG TGCGAATACT	120
	AAGGTCGGAC CGTTTGCGCA ATTGAGACCA GGCGCGCAAT TAGGG	165
•	(2) INFORMATION FOR SEQ ID NO: 3188:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3188:	
35	CAGTTTAGTG GAGACGAATC TAAACGAAAC AAAGCGATTG GACGTGCATC AGTTGTACCA	60
55	ACATTCTTTG GTGTAAACGn AACCAATTTT ATTTGGTGCC ACCACTAGTT ATTGGAATCC	120
	TGTGTTCTTT ATTCCATTTG TATTAGCACC AATTGTTAAC GTATGG	166
40	(2) INFORMATION FOR SEQ ID NO: 3189:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3189:	
50	AACCCTTTAT CTAATCCATT TTCAGTTAAG CGATGACCGC CTGCTAAAAT TTGTGCATCT	60
	GATTCTTTTG CTGCATCAAT ATATGATTGA ATTTTATCTA ATTGATCCTT ACCAGTTTGA	120

	(2) INFORMATION FOR SEQ ID NO: 3190:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3190:	
	TCCCCCAAAG GGTTTAAGGG GTTAACCCGG GTTTGGGAAA AATTTTTTAA CCCCCCTTAA	60
15	Anticcegg Aaaaaggaaa ceegggtitt taaaaaaaac eeggggtice caaaaattit	120
•	TTGGGAAAGG GAAAGGAAAA AAGGGTTAAA AAATTTTTGG GAAAAACCCG GGCCCAnAAA	180
•	AAAGGGTTTT TTTCCCCTTA AAAAAAATTT AA	212
20	(2) INFORMATION FOR SEQ ID NO: 3191:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3191:	
30 .	CTTCACTGAC TTTAGCAATT TCATCACCTT TTGCCCCTAC AACGATAGCT AATGATTTAT	60
	ATTGTAAACT CAMATGACCT TGTTGAATAC CTTCTGACAC AAGCGCGCGA CATGCTGCAA	120
35	AGTTTTGCGC TAAACCAACG GCAGCAAC (2) INFORMATION FOR SEQ ID NO: 3192:	148
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3192:	
	CTGCTAATCC GAAATCTTTT TGGAGTTTTA TTAAACCAGC TGCTTCTAAT AGTTTAAGTG	60
	CACGTGCTTG GTTTGACACA TCATTTGGAA TGACAACTTT AGCTCCATCT TTAACCTTTT	120
50	TGACATCTTT AATTTTATCT GCAGAAATAA ATCCATCACG GATGGCTCTT AAATATATGT	180
	TACGTGATAA TTTCTCGATA AATGGCTTCC CT	212

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3193:	
10	TCGTGCAGTG GTCTTCTGTT AATTGGTGAA TTTGGATACT GGTTATATTC AGCTGCACCG	6
	CAAGCAACTT CTATTGATGG CCNAACTGCC TTTTTACCTC AAGCAATGGG TATGGTAGTT	12
15	GTTGCAGTCA TTTATGGCTT T	14:
	(2) INFORMATION FOR SEQ ID NO: 3194:	
20 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3194:	
	AATAACGTTC TGAAAAACGA AGATGTTTTA AATGCCTATA TCCGCGGTCG TGGCGGAATG	6
30	GCAGACGCGC TAGGTTGAGG GCCTAGTGGG AGAAATCCCG TGGAGGTTCA AGTCCTCTCG	120
	GCCGCATCAA AATTCTTAAT TTAAATAAGC GGGTGTAGTT TAATGGCAAA ACCTCAGCCT	180
	TCCAAGCTGA TGTTGTGGGT TCGATTCCCA TCACCCGCTC CATAGATAAT TTTAATGAAC	240
35	ATTGAAAACT GAATGACAAT ATGTCAACGT TAATTCCAAA AACGTAACTA TAAGTTACAA	300
	ACATTATTTA GTATTTATGA GCTAATCAAA CATCATAATT TTTATGGAGA GTTTGATCCT	360
	GGCTCAGGAT GAACGCTGGC GGCGTGCCTA ATACATGCAA GTCGAGCGAA CGGACGAGAA	420
40	GCTTGCTTCT CTGaTGTTAG CGGCGGACGG GTGAGTAACA CGTGGATAAC CTACCTATAA	. 480
•	GACTGGGATA ACTTCGGGAA ACCGGAGCTA ATACCGGATA ATATTTTGAA CCGCATGGTT	540
15	CAAAAGTGAA AGACGGTCTT GCTGTCACTT ATAGATGGAT CCGCGCTGCA TTAGCTAGTT	600
	GGTAAGGTAA CGGCTTACCA AGGCAACGAT GCATAGCCGA CCTGAGAGGG TGATCGGCCA	660
	CACTGGAACT GAGACACGGT CCAGACTCET ACGGGAGGCA GCAGTAGGGA ATCTTCCGCA	720
50	ATGGGCGAAA GCcTGACGGA GCAACGCCGC GTGAGTGATG AAGGTCTTCG GATCGTAAAA	780
	CTCTGTTATT AGGGAAGAAC ATATGTGTAA GTAACTGTGC ACATCTTGAC GGTACCTAAT	840
	CAGAAAGCCA CGGCTAALAC GTGCCAGCAG CCGCGGTAAT ACGTAGGTGG CAAGCGTTAT	900

	CGGCTCAACC GTGGAGGGTC ATTGGAAACT GGAAAACTTG AGTGCAGAAG AGGAAAGTGG	1020
	AATTCCATGT GTAGCGGTGA AATGCGCAGA GATATGGAGG AACACCAGTG GCGAAGGCGA	1080
5	CTTTCTGGTC TGTAACTGAC GCTGATGTGC GAAAGCGTGG GGATCAAACA GGATTAGATA	1140
	CCCTGGTAGT CCACGCCGTA AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG	1200
10	TGCTgGCAta ACGCATTAAG CACTCCGCCT GGGGAGTACG ACCGCAAGGT TGAAACTCAA	1260
10	AGGAATTGAC GGGGACCCGC ACAAGCGGTG	1290
	(2) INFORMATION FOR SEQ ID NO: 3195:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3195:	
	TGGTACAGAG TTATCGCTGG TGGTCCTGTT CGTGCCGTAC TTGAATTATC AGGTATCACT	60
25	GATATCTTAA GTÁAATCATT AGGATCAAAC ACACCAATCA ACATGGTTCG TGCTAACAAT	120
	CGATGGTTTA CnAAACCTTA	140
30	(2) INFORMATION FOR SEQ ID NO: 3196:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3196:	
40	CTATTGGATC AGGAGGCAAC TACGCTTAAG CGCAGACTGC CCATTGAAAC GCCATGCATC	60
	GCATTTGTCG CCTGAAGAAA TGGCATATGA GAGCTTGAAA GTAGCGGCTG ATATTTGTGT	120
45 .	CTTTACCAAC GNTAATATTG TTGTC	145
	(2) INFORMATION FOR SEQ ID NO: 3197:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

.

	TGTCGAGTTG GAATTGGACG ATTGAATATC CCATCTCCAT CACTATCAAA GTATGGGAAT	. 6.0
	TGAATTGTTT CTAATTCGTA TCCACCTTCT GTCATTGATA ATGTAGGGTT AATTTTAGAA	120
5	CCATCTKCTG TTTCTAGTTT TAAGTTCCAC TTCTTACCTT CTTCCCAACG TTGACCCATT	180
	GTGCCATTAG GTACTACTAA ACTATCGCTG ATTGCATCAT GAATAACTGG CTTCCATTCn	240
	CCTTGCTCTG TTGTTTGACC TAAGTCACTC GCGCTMAAAA ATCGACCCGC TTTATATCCA	300
10	ThTTCAGCTG	310
	(2) INFORMATION FOR SEQ ID NO: 3198:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3198:	
	TGCTTTATTA ATGCATTGGC TAATAATCCA CTTGTACCAC CACCGGCACA AAGTACTAAG	60
25	AGGTTTGTTC TGTGATATTT GAAGCTTTAG TGCATCGTCT GATACACCAC TTGCCGCTAA	120
	AATTGAATCA GCTTTTnTCG	140
30	(2) INFORMATION FOR SEQ ID NO: 3199:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3199:	
	TGGTGATTTC AAATCATGAG ACTGGGACAA AATGATGTTT TCATAAAAAT TATTTCGTTG	60
	TTCCACTCTC ATGATTTTTT TGATGAACAT AATTACATGA TTGATTGCAT CATTTGTTAA	120
45	AACCAGTGAT TGCAACCTGC CATTCACANG GAAAATTACC TAATAAGTGG CGTATTTACC	180
	AGTC	184
	(2) INFORMATION FOR SEQ ID NO: 3200:	
50 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3200:	
	TTGAGAAGCG TTTAGGAAGT AACGTTTAAC GACGACAGTC GTTCAATGCG ATCAAAATGT	. 60
5	TTTAACACAT GAATCGCTCT CGTACTATTC GTGTGTGACA CATGTTCTTC CAGCATTTGC	120
	TTAATGAATG CTTTTTCTTC TTGGTnTTTA ATCTTTGTAA ACG	163
	(2) INFORMATION FOR SEQ ID NO: 3201:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3201:	
20	GTTATGTTTG AGACTATAAT GAATAAATAT TTAGAAATAT GACTCCGATT GTTCGATGCT	60
	TAATTCAGTT AGAAGCATCA TAAGAATGCA TGATTACTGG TGTAAAGATA CGTAATGTnT	120
	TGTATTGACT GGATGTCTTT GGATAGAGT	149
25	(2) INFORMATION FOR SEQ ID NO: 3202:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3202:	
	CAAGTGACTG AGATTACTGA AGTAAACCCG TTACCGCCAC ACTATATTTG TCCGAACTGT	60
	AAAACGAGTG AATTTTTCAA TGATGGTTCA GTAGGATCAG ATTGATTTAC CTGATAAACG	120
40	TGTGAAnTTG TGGAGGCCAC TATTAAAGAA GACAGAATCC GTTGAACATT TAGATAAGGG	180
	AAAGTCCGAT TC	192
	(2) INFORMATION FOR SEQ ID NO: 3203:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3203:	

Ŋ.

	CGCCATCTAA CGTTTTTTGT ATTCGTTGTT GCTGAGCTAG TTGTAAGTGC CnCATTAAGC	120
	ATCTTATAGC GTGATAGCCA TGCGCCAACG TACAAATCTG CTCCGTATTG TACGCACCAC	180
5	TAAGCAGTAC ACACCAGTAA CATTTGATAG CGTTATAGCG CAATATACAG TACA	234
	(2) INFORMATION FOR SEQ ID NO: 3204:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3204:	
	AACGCCATAA GCTACATGTA TGCTTCTTGC ATGGTTATCA TCCTCTCTTA ATGACTATCT	60
20	TTTAATTACG NAATGGCTTA CCAGTTTTTA ACATATGTGC AATTCTTTCA TATGATTTTT	120
	AGATTTAGTA GCATAAGCAA TTTCTCCACG TTGATGTACG TGATGTAATG ATTCTGGG	178
25	(2) INFORMATION FOR SEQ ID NO: 3205:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	\mathcal{L}_{i} , which is the state of \mathcal{L}_{i} . The state of \mathcal{L}_{i}	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3205:	
35	TATTAATCAC GTTGTTGTGC GTTCGTGTTT TCGCAGTATT GATTTGTTGT TGCGCATTAT	60
	GCATTGCATT ATTGTACTGC GTAATTGTAC CTGGCTTTTT ACCTTCAGTG CTTACTGGnT	120
	CATCTAAATG ATTTTTAGCT GTGATTA	147
40	(2) INFORMATION FOR SEQ ID NO: 3206:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	-
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• .
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3206:	
	CAGCTGTACT AGTTGAGCGT ATTATCCAAA ACATTTTACG TGATGGCATT GATGTCGATC	60
	GACTITCAGI CGIAACGIII ACAAACTIAA GCGCACGICA NAIGAAGCAI CGIGIAGACC	120

	(2) INFORMATION FOR SEQ ID NO: 3207:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3207:	
	TAGGGACTTT GAAGCGGAGA GTCTAATGCA TATGGGCAGC ATTATGATCA GCAACTGCTG	60
15	AGAAAAATCC AGTTCTAGCT TGGGATTTAA ATGTGGAGTG GnTTAATGAA TGCATTAAGA	120
	AGCTGCAAGA ACTTATAAGT GTGCA	145
	(2) INFORMATION FOR SEQ ID NO: 3208:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 131 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3208:	
30	AAACGGTTTT AGATCGTATT CAATTGAAAA GGACCGGTAT TGAATGNAAT CACACTTAGC	60
	AGCGATTGAT CAG&ACATTT TAAATTAACT TATTTATCAA CGGTATATGA AGGGGATTTG	120
	GAAGATGCGT T	131
35	(2) INFORMATION FOR SEQ ID NO: 3209:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Tillear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3209:	•
	ATAAATTTAT CTATAATCTG TTGCTTGTTT TnCTGTTCTA CAAGTATTTT CACATTAGGT	60
	CCCGCATCCA TTGTAAAATA ACACGGATAC CCCGCTTCTC GGCATTCGTG AACAGCGCCA	120
50	TGACATCATA ACTITCTGCA CAGTAGGAAC GGGGGTG	. 157
	(2) INFORMATION FOR SEQ ID NO: 3210:	
EE	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3210:	
•		
	AACGTAATAG ATATGGTACT TACTACATGG GAGAGAGTGC TAGATTCACA AACGGCAATC	60
10	AACCAATCAC AGTAAGAGAA GTGGGGCCAT TCTTATCTnG TCCAGTGGGT TATCAGTTCC	120
	AACCTGGTGG GTATTGTGAT TAT	143
	(2) INFORMATION FOR SEQ ID NO: 3211:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3211:	
25	ATGCATACTG TATGTGTTCC AGCATATACA ATTTTGnCCA TCTTTAATGA CAACTGTACC	60
	ATTTTTCACA ACATTTAATT CATCTAATTC CTTACCCTTC AAAGTTTATC TGTTGATCTC	120
	GGTAAAATTA ATTCTGC	137
30 .	(2) INFORMATION FOR SEQ ID NO: 3212:	÷
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3212:	
40	ATTCACGCTT TAAAGGACGT AAATACACGA CTAGGCTGTT TACCTTTAGA TCTAAATCAG	60
	AACAATTTT TTACCATGGT GTTCCCCTTG AATTAGGAAT TTTATATAAA AATAAGCGGG	120
45	AAGCGTTGTG CCCCGCTTAC TCATAAGCTT TAATTAATGC TAAATAGTCT GACACTAGCG	180
45	ATTTGATAAA ACTATACTAA AATTATTTAG AAGTCACTAA GATGCTAATG ACGACNANT	239
		239
50	(2) INFORMATION FOR SEQ ID NO: 3213:	
<i>50</i> .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
5 5		

TTCAAAATTCT TGAGTTGTAT AGAGCTCGAA AATMITTGCC CATTAGCATA ATCAGACTTT TCAAAAGTCT TGATATTTGA TACCCACGCT (2) INFORMATION FOR SEQ ID NO: 3214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: mucleic acid (C) STANADEDNES: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: (xi) SEQUENCE GESCRIPTION: SEQ ID NO: 3214: (xi) SEQUENCE ATGGGATTAA AAGATCAAGC TGTTACCAGA AGACACATTACCATTGTAC (xi) SEQUENCE ATGGGATTAA AAGATCAAGC TGTTACCAGA AGAACACATTACCATTACAAATAT TCCAGAAACAA TATCATTACAACACATTACACACATATACAACACATATACAACA		•	
TTCAAAATTCT TGAGTTGTAT AGAGCTCGAA AATHTTTGCC CATTAGCATA ATCAGACTTT TCAAAAGTCT TGATATTTGA TACCCACGCT (2) INFORMATION FOR SEQ ID NO: 3214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STANADEDNES: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: (xi) SEQUENCE OF TATAGAGA TOTATAGAGA CATTAGAGAGA AGTACLTGTT (xi) SEQUENCE AGAGGATAA AAGATCAAGC TGTTACCAGA AGAACAGTG (xi) SEQUENCE AGAGGATAA AAGATCAAGC TGTTACCTGG AGAAGGTATT (xi) SEQUENCE CHARACTAGA TATTAGAACTACCAC (xi) INFORMATION FOR SEQ ID NO: 3215: (xi) SEQUENCE CHARACTAGTTSISTICS: (xi) LENGTH: 386 base pairs (yi) TYPE: nucleic acid (yi) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG 45 CAGATAATT AGATAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT 26 TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAAGC CAATCAACGF TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT 50 GACATCATTA AGAATATAAA TCCGTTTGAA AGCATTTGAA AGCAACTACAT TTTCTATAAA 51 TGGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTTA		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3213:	
TCAAAAGTCT TGATATTGA TACCCACGCT (2) INFORMATION FOR SEQ ID NO: 3214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: 20 CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTMTGTGG TTTGTAAANA CAAGTATATT nCGAGAACAC GTTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGA AATTAACAAG AGTACLTGTT 25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCGTTGAC TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT 30 TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAAGA TTGTGTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTC ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG; TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAAGG CAATCAACG; TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTT 50 GACATCATTA AGAATATAAA TGATGTTTGGAT TATTTATTATAT GTATGAAAGA ACAACTTTT 51 GACATCATTA AGAATATAAA TGATGTTTGGAT TATTTATTATAT GTATGAAAGC CAATCAACG; TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAAAGC CAATCAACAC TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTT 51 GACATCATTA AGAATATAAA TGATGTTTGGAT TATTTATTATAT GTATGAAAGC CAATCAACAC TTTCTTATAAA TGACATCAACA TTTCTTATAAA TGATCAACACA TTTCTTATAAA TGATCAACACA TTTCTTATAAA TATATTGCAT TATTTATTATAT GTATGAAACA ACAACTTTT 51 GACATCATTA AGAATATAAA TGATGTTTTGAA AGCATTTGAA AGCAATTTAAA ACCAACACA TTTCTTATAAA TATATTGCAT TATTTATTATAT GTATGAAACA TTTCTTATAAA TATATTGCAT TATTTATTATAT GTATGAAACA TTTCTTATAAA	•	CATCCTCAGA GTAGGAATAG CCATACCATC GAATAATTCA CGTACTGTTT CGAATTGAGG	60
(2) INFORMATION FOR SEQ ID NO: 3214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: (xi) SEQUENCE CONTROL TRANSAMENT TRANSAMENT TRANSAMENT GACAACAGTG (xi) SEQUENCE CONTROL TRANSAMENT TRANSAMENT TRANSAMENT GACAACAGTG (xi) SEQUENCE CHARACTERISTICS: (xi) LENGTH: 386 base pairs (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGIGAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGIGAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGIGAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGIGAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGIGAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC CAGAACTCAAACG TITGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GCATCAAACG CAATCAACG TITGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GCATCAAACA CAACCTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAAA 300	5	TTCAAATTCT TGAGTTGTAT AGAGCTCGAA AATTTTTGCC CATTAGCATA ATCAGACTTT	120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: CTARACCATTG GTITARACTA ATGTTCAGAG CTTTNTGTGG TTTGTARANA CARGTATATT (CGAGAACAC GTTTTGTAT AGAGTCTCAA TTATARAAGT TAGAATAGTT GACAACAGTG (TTACGATATT ATTARACACAC TGTCTATCAT TAACGAAAGC AATTARCAAG AGTACLTGTT (TAGGATATT ATTARACACAC TGTCTATCAT TAACGAAAGC AATTARCAAG AGTACLTGTT (TAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT (TCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACCACAAAAA ATTARAGATA (2) INFORMATION FOR SEQ ID NO: 3215: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG (ATAACTAACA TTTATAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT (ATAACTAACA TTTATTAATA TGTTGATTGG TTTTATTTAT GTATGAATGA		TCAAAAGTCT TGATATTTGA TACCCACGCT	150
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214: 20 CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTNTGTGG TTTGTAAANA CAAGTATATT ncGAGAACAC GTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACTGTT 25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT 30 TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA 31 TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG ACACAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG 45 CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATTATCT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG; 16 TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTATT GTATGAATGA ACAACTTTTT 30 GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA ACCAACAA TTTCTATAAAA 30 GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA ACCAACAA TTTCTATAAAA 31 32 TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAAT GTATGAACAACA TTTCTATAAAA 32 33 34 35 TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAAT GCATCAACACA TTTCTATAAAA 34 35 36 37 38 39 30 30 31 31 32 34 35 35 36 37 38 38 38 38 38 38 38 38 38		(2) INFORMATION FOR SEQ ID NO: 3214:	
CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTMTGTGG TTTGTAAANA CAAGTATATT nCGAGAACAC GTTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACLTGTT 25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA 30 TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG ATAACTAACA TTTATTAATA TATAATGCAT TATTTAATAT GCATCAAAGC CAATCACGG TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACACTTTTT GACACTCAATA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACACA TTTCTATAAA		(A) LENGTH: 399 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTMTGTGG TTTGTAAANA CAAGTATATT nCGAGAACAC GTTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACLTGTT 25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA 30 TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG ATAACTAACA TTTATTAATA TATAATGCAT TATTTAATAT GCATCAAAGC CAATCACGG TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACACTTTTT GACACTCAATA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACACA TTTCTATAAA			
ncgagaacac gtttttgtat agagtctcaa ttataaaagt tagaatagtt gacaacagtg ttacgatatt attaaacaac tgtctatcat taacgaaagc aattaacaag agtacttgtt gtgaaatcat cgtttaatag tcaaagatga tcatcgtagg gtagacaaca tatcattgac ttaaggaagg ggaatgaccg atgggattaa aagatcaagc tgttacctgg agaaggtatt ttcatcaatt tccagaacta tccgataaag aatttaagac tacacaaaaa attaaagata ttttaacaga acatcatatt agaatattag acttaccac (2) information for seq id no: 3215: (i) sequence characteristics: (ii) length: 386 base pairs (iii) type: nucleic acid (iii) type: nucleic acid (iii) topology: linear (xi) sequence description: seq id no: 3215: caggtgaaag cacaagagga tttgctgttt atttctcc tgaaattaag aaattcattg cagataattt agataaataa ttaaaactta gacattcacc caatcctgac aaaatatact ataactaaca tttattaata tatattgcat tatttaatat gcatcaaagc caatcaacg: ttgattttca ccaactcaat tgttgattgg ttttatttat gtatgaatga acaacttttt gacatcatta agaatataaa tgcgtttgaa agcatttgaa agchacaaca tttctataaa		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214:	
TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACETGTT 25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC TCAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT 30 TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA 31 TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS:	20	CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTnTGTGG TTTGTAAAnA CAAGTATATT	60
25 GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT 30 TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA 31 TTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG 45 CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGF TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA		nCGAGAACAC GTTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG	120
THAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA 30 TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA 31 TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTTA		TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACLTGTT	180
TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS:	25	GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCaTTGAC	240
TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TITTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG: TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACACA TTTCTATAAA 30 GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACACA TTTCTATAAA		TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT	300
TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC (2) INFORMATION FOR SEQ ID NO: 3215: (i) SEQUENCE CHARACTERISTICS:		TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TITGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TITATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA 30 GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA	30	TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC	399
(A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG TTGATTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA 30 GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA		(2) INFORMATION FOR SEQ ID NO: 3215:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215: CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30	35	(A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG 45 CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30	40		
CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215:	
CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30		CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG	60
TTGATTITCA CCAACTCAAT TGTTGATTGG TTTTATTAT GTATGAATGA ACAACTTTTT GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30	45	CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT	120
GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACA TTTCTATAAA 30		ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACG	180
GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACAACA TTTCTATAAA 30	50	TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT	240
ATTTTTCAAT AACAATTGCG CCACTAAAAC TCAAAATTTC CACCACCAAC ATCCAAATTA 36		GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACA TTTCTATAAA	300
	•	ATTTTCAAT AACAATTGCG CCACTAAAAC TCAAAATTTC CACCACCAAC ATCCAAATTA	360

.

	(2) INFORMATION FOR SEQ ID NO: 3216:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3216:	
	AGTTGCATCA ACTGAATCCA ACGCTACGCA ATACGAATTA TTCCAATCTG GCATGCGTGT	6
15	TGGTAGAGAA ATTTTAGCGA CATCTCGAGC ACGGTTTACC TTGCCTTTnT TGGTGGCCAA	120
	CTTGCTTTAT GCTATGGGTT TTTCAAACTT AAA	15
	(2) INFORMATION FOR SEQ ID NO: 3217:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3217:	
	CTTTGCATAT TCTGGTTTGT AGTATTCATG GTCCGTCAAT TGTAGACCCA TCAATTGCAG	60
30	CCATTACATA TGCGGAATAT CGAAGCGAAC TTCAAGTTGC TTCAAGCTGG TAGAACACGC	120
	ANATAAAATT ATTACATC	138
35	(2) INFORMATION FOR SEQ ID NO: 3218:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3218:	
45	CACTCCAAAC CAAGGATTTA CGTGCTTTAT ATMGAGGTAA AGCACATCAT GTKGTTAATT	6(
	TTATGCmTTT TaTTGCmCmA GraTTAaGAG AAATTTTAGC nTCTTTAGGT TTGAAACGTG	120
	TAGAAGACTT AGTTGGAAGA ACTGATTTAT TACAACGATC aTCAACATTA AAAGCGAATA	180
50	GCAAAGCGGC TAGTATTGAT GTTGAAAAAC TGTTATGTCC TTTCGATGGG CCAAACACAA	240
	AAGAAATTCA ACAAAATCAT AATCTTGAGC ATGGATTTGA TTTAACAAAT TTATATGAAG	300

	AACAACGTGA TGTAGGGGTT ATTACAGGTA GTGAGATTTC GAAACAATAT GGAGAAGCAG	420
	GACTTCCTGA AAATACAATT AATGTTTATA CGAATGGTCA TGCTGGTCAA AGTTTGCAGC	480
5	ATATGCA	487
	(2) INFORMATION FOR SEQ ID NO: 3219:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
٠	(b) Torollog1. Tilled1	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3219:	
	ACCAACTCGG AATCATGCAA TGAACACCAT GGTTGAAATA AGTGAATTGC ATAAGTATCC	60
20	TGGCCTGGCA ATGCTGGTAT AACCTAAAAC CTTGTTGCAC GNAATGTATT CGCTACAATT	120
	AATGTACCTG CAAAACCGTT TAATAAGAAG TTCGAAATCG TTGCACCTGT ATATGG	176
	(2) INFORMATION FOR SEQ ID NO: 3220:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3220:	
35	CTGATTTAGG TAATCTTTGC GCAATTGTTT TTTTACAGTT TCGGCAAATG GGTGCCCnGG	60
	CAAATAAATA TTGGCTATGC TCAAACCTGA ATTAATGGTG GGTGTGTCCG CCATCGTAAT	120
	TGGGnCCGCC TGAAGGGCCG CATATAAATG ATAGTGCTCT TCCGAATAAA AGGTAGGCCA	180
40	TATGTAATTG TTTTGTGGTT ACG	203
	(2) INFORMATION FOR SEQ ID NO: 3221:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3221:	
	AGCTAAATCT TGCCAATATG GTATCAACTT TTCATTCCAC TGATAATCAT AAATTTCAGA	60

	GCAATGCCAG AAATGTATTA ACAACTGGCA CGTCTAATAG ATTGCTAACG GATTGTTTAC	180
	GTACGTTCAT CGGCTTCTTT CGCTTCTATC GGATCTGGAG AATTGGGATG TTATGACCAC	240
5	TGAACCACTT ATTTGTAAGC TCTGTCGTGA TTGACTTCAT AATGCTTGCG CTTGnCCTCA	300
	TTTCTAACAA CTCATCCTAC TTAChAAATT ACCCChGGGG TACACCTGGT CCACTTCATC	360
10	A control of the cont	361
	(2) INFORMATION FOR SEQ ID NO: 3222:	,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3222:	
٠.	GGGGCTCCGn GGAGGCAAGG GTAGAAAATG ATGTAAACGC TGCATTACTA GGCGAATTGA	60
	AATTACATCA ATATCAAGCA GAACGGATCT TTTGTATGAC GCTTGGTACA GGCATTGGGG	120
25	GTGCGTACAA GAATTAATCA AGGTTCATGT TG	152
	(2) INFORMATION FOR SEQ ID NO: 3223:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3223:	•
	TTTGTTAAAT ATAGGCCCTG CAATGAGTGT ACTGGAATGG CAATAATCAT ACCATACAGT	60
40	AATACATCTC CAACATTTGC CTTMAATTCT TTTCCCATGA CTACCGGTCC TGGGATGTGG	120
	TGG	123.
	(2) INFORMATION FOR SEQ ID NO: 3224:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3224:	•

	TGGTTGGTAA CCGTAAATTA ATGCCTGACA ATGATATTAG CTnCCTAAGC ATATTTCTGA	120
	TGATTTAACA CATTATGAAA CGAGA	145
5	(2) INFORMATION FOR SEQ ID NO: 3225:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topobodi: Timear	
, 15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3225:	
	GGTATTGTCT AGTCAATTAC TAACACCATT TAATTGTGGn AAGCAAAAGC TAAAGGTTAT	60
	CGTGCGCTAT TGCAGGCATT GATGCTTCCA ACAAAGTCGA GTATTCAGTT GCATCAAAAG	120
20	TTTGCTTTT	129
	(2) INFORMATION FOR SEQ ID NO: 3226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3226:	•
	GACACTACCG TTCCCACGTA GCATCAATCG TCTCAGTCGC ATCGTAGTCA TCTGTATGTG	60
35	TTCCAGCATA TACAATTTTG CCATCTTTAA TGACAACGTA CCATTTTCAC AACATTTATT	120
	CATCTANTCC TACCCTCAAA GTTATCGTTG ATCTCGTAAA TAGTCGGCAA	170
	(2) INFORMATION FOR SEQ ID NO: 3227:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3227:	
-0	TTACTGCTTT ACGTTTATCA TTTTCTAATT CANAAATTCG TCATTCAGTT TCAACTTTAT	60
5 0	CGACAGCTGG ACTTTGCGCA GATAAATGTG CTGCTGTAAT ATCTAACACA TCGATTGCTC	120
	TTATCTGGCA ATAATCGTTG	140
	·	

(i) SEQUENCE CHARACTERISTICS:

_	(A) LENGTH: 120 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear.	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3228:	
	GCGCCTATAA TTGCGCTACT TGATTTAATT GAGTAGATAA ATCTAATCCG AATAAATCCG	60
	TGACTTGCTT GATAAATAGC AACAATGCTn CAACTAAACC AGTTAGTACT GCTTTGTTTT	120
15	(2) INFORMATION FOR SEQ ID NO: 3229:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3229:	
25	GGCTATACAC .CGACTACAGT AACATCTGGT AGCGACATTG AAAAAGACTC TAATGGTTTA	60
	ACAACAACAG GTGTTATTAA TGGTGCTGAT AACATGTACA TTAGATAGTG GnTTCTACA	115
30	(2) INFORMATION FOR SEQ ID NO: 3230:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3230:	
40	TGGGAATAGC AACCAACAAT GCGACAACAA AGCCCGCTAC AAATCTCCAT NAACTAATTG	60
	CTAAATGTTG GAAAAATTTC TCCAGTCAAC AATGAAAGGC CATATGACTT TTTCCTACAA	120
45	GAGCAGGG	128
	(2) INFORMATION FOR SEQ ID NO: 3231:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2491

	AATGCAGCTA TTACTTTTCA CAGATTCCAT ATCGTTCAAC ATTTAAATAG AGAACTTAAT	60
5	AAGTATCGTG TACAAGTTAT GAATGANTAC CGTAATAAAA AAGGACCTGA TTATACAATT	120
J	TTC	123
	(2) INFORMATION FOR SEQ ID NO: 3232:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1656 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· .
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:	
	GCCTCAAAGA ACATGCTGAA CAGTCATCGC ATTCATATAG TTTGAAGTCT CGTTTAAAAC	60
20	CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA TTAGGACATA	120
•	TAAATTCATC ATTAAGTTCG TCATATTTCC AATTTTGAGT GTCGAAAATG TCACTTTAA	.180
	ACTITCTAGI TITATCITTA ATAAACATGC CATACGTAAT AAGTGGCGIT TIATTAAAAT	240
25	CATCTATAAT GGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT ACAAATAACC	300
-:	GAAGLATTTT GAATCATTGT TAAAAATGGA ATTAAAGTTC TAGTATCTGT CGGGTTTTGA	360
30	AATAGGTCAT AGGATAAAAC AAATTGAGAA TTTGTCGCTA TTTGTAAATT GTATCCTGGC	420
	TTAAGTTGGC CATTTTTCAT ATGGTCTTCC TTCATTCTCA TAAAAGTTGC ATCATGATCA	480
-	GTTTTAGAAA AICTATTTCT ATCTTTAAGA ATCGATTTTT GTTCTTCATA TTTATTTTTT	540
<i>35</i>	CTTTCGGAAT AATCATCAAA TTTMTTTTTG AACTTCTTAA TCTTAGTTCT TTTTTACGGG	600
	TCTGTTTTCT AATTTGAGTA CTATCTTCGT TCTCAATAGA ATGATTTAAA YCTTCGATTT	660
	CTTTATCTAA ATGACTACCA ATTAAATCTA TTTCTTCTAT TGTTAAATCG CTATCTCCAT	720
40	CTTCTTTTAT CTCTGGTATT ATTTTTTCTT CAACTAAGTC ACGATATAAT GTTTTTGAAT	780
	TTTCGTTCAA TTTCGATTCG TGATTTTGAA TACTTTTCTT CCACACAAAT GTATACCTAT	840
45	TGGCATTAGC TTCTACTTTT GTACCATCAA TAAGATTTTG CTTTAAACAT TGACTATGAA	900
10	ACTGGATAAA TAAAGATTCA ATTAACGCAT CAGTATTAGG ATTCACTCTA ATACGATTAA	960
	TAGTTTTATA AGAAGGTGTT TGATTTTGAG CTAACCACAT CATTCGAATA CTGTCATGAA	1020
50	GTAATTTCTC TATTCTACGA CCAGAAAATA CAGATTGAGT ATATGCATAT AAGGTGATTT	1080
	TTAACATCAT TTTTGGATGA TAGGATGTTG CGCCACGATG ATGTCTGAAT TTATCGAATT	1140
	CGCTATCAGG TATCGTTTCA ACAATTTCAT TAACATATCG CGAAATATCA ATTTGAGGAA	1200

	GGCACTTCAT TAATTTAGTT TAGTGGTATT TATTAAATTA TACGAAGGGA CCCAACACAG	1320
	AAAATTCAAA TTATTGAATT AAACATTTAT GTGCAAGTTT GGCAAAGTGT CTTATTTTTT	1380
5	AAAAGTATGT AAAAGTAAAA TTACATGTTA ATACGTAGTA TTAATGGCGA GACTCCTGAG	1440
	GGAGCAGTGC CAGTCGAAGC CGAGGCTGAG ACGGCACCCT AGGAAAGCGA rCCATTCAAT	1500
	ACGARGTATT GTATAAATAG AGAACAGCAG TAAGATATTT CCTAATTGAA AATTATCTTA	1560
10	CTGCTGTTTT TTTAGGGATT TATGTCCCAG CCTGTTTTTT GTGATTTTTA ATAATTTGAA	1620
	TATGGYAAAT GTATTAWTCL CTCATTTGTA TAGATT	1656
15	(2) INFORMATION FOR SEQ ID NO: 3233:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:	-
25	TTGCTCATAA ATCTTTTCTT GGCGCTCTGA ACACTATCTT CTATTCTGTC GGAATTTTTC	60
	AAACATAGTC TTATCATTTn CTTCTAATCG CGTTAAACGC CAATCTTGTT CATGTCGTTT	120
	GGTAAATCCA	130
30	(2) INFORMATION FOR SEQ ID NO: 3234:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:	
į.	GCCACGATAA AGAAGTAAGA ACAACACATG GTGTTACTGG TACAGGCTCA TGTTCTTGGG	. 60
	AAAGTTATTT GTGnAAAATG GTGTGAATTA CCTGGGGAAA AATCAACAAA CTGACTATCC	120
45	AA	122
*	(2) INFORMATION FOR SEQ ID NO: 3235:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:	
5	AACCAGGATA TGAAATCTGT GACTTATTGC GTTAGATCGT TTTGTAACTG CTACTATTGA	60
	AGAAGCAGAC CAATATAAAG GTACCATTCA TTGCAAAAGC ATTACATGCA TGAACCCAGT	120
	TGACATTTAG TTAGAGATGG AAGATAGTAT TGTGCATTTG CAGNITCCAC ATG	173
10	(2) INFORMATION FOR SEQ ID NO: 3236:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236:	
20	GCGGTGTGCA TTTGAAAATG TTATCAAGAA TATTGAGTTA ATTCGCAACG ACATTATACC	60
	AGCGATTANA AAGCATTTAT CAAAATACGA GGGGCGTCAT CATGAATATT GTATTATTGT	120
25	CA	122
	(2) INFORMATION FOR SEQ ID NO: 3237:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:	
	TTTTTTGCCC AAAATTTTTG GGTTTTTTT GGGTTAAAGG AAAAAAAA	60
40	GGGGGGGGTC CCCCAAAAAT TTTTTCCCT TCCCTTTGGT TTGGTTTTTT GGGGGGGG	120
40	CCCCCCCCT TTGGAAAACC CCTTAAAAAA ATTTAAnGGT TAAATTGGAA AAAAAAATTT	180
	AA	182
45	(2) INFORMATION FOR SEQ ID NO: 3238:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	.2, 10102001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3238:	
<i>55</i>		

-	GATGANGTTC GACAACGTAT TGTGGCAGAT GTTGCAGTTG ACTTTGAAGA A	111
	(2) INFORMATION FOR SEQ ID NO: 3239:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3239:	
15	AGTTGATCGT ATTTTCCAGA AGAGACAGAA TTAATTGATT ATCGTGTTAG TTCTGTCACT	60
	GAAGGTACTG ATGCCCAAGC AGNAGTACAT GTAAGTTTAT TGATTGAGGT AAGACTGTCA	120
	(2) INFORMATION FOR SEQ ID NO: 3240:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3240:	
30	TACACATCTm TCTACGATTG TAGTTTATCG ATAGGTTTCG CATCATGAAA CGTGATAAAC	60
	AACCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCAGTGTTT	120
	AGCATAT	127
35	(2) INFORMATION FOR SEQ ID NO: 3241:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
		•
•		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:	
-10	GACTAAAATA GATGTTGGAA TACTTGGTCC CATGGGAAAA TATTGGACTG GGTAACCCAA	60
	TCACGGCTTC TGAAGTAGTT CTTTnTCTTC TATTAAAATA GCGACGGAAT CACACCTTCT	120
50	GCGG	124
	(2) INFORMATION FOR SEQ ID NO: 3242:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs	•

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3242:	•
		<i>c</i> ,
	TACGTGTATA CACCGTTATC TTTATGGCTT TGAATTTCCA TAATAAATAC ATACGGnTTT	60
10	TGTGCAGAGC TCAGCACATA ATCATCTTTA ACTATAGTTT CTGGGAATCA CTTCATAGTT	120
	TT	122
	(2) INFORMATION FOR SEQ ID NO: 3243:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:	
25	AACCTTTTCT GCAACCATAC GCCATAGGTA TGETTTCTTT TTACAATTAA AGAGCCAACC	60
	GTTGTTATAG TCTAACAATG GTTGGCTCCT CTTATTTTAT GTGCTAAAAA TTTATAGGCA	. 120
	ATTITATIAC AACAATGIAC ATTIAAGGIG ACCTICATGC CAAAATCGCA TCACTCATIT	180
30	AATGGAAGCA GCACGTCTTC ATACAAAGTC ACGATCCTAA T	221
	(2) INFORMATION FOR SEQ ID NO: 3244:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:	
	TTGCATTTTG ATTGTCTGGT GACCTTGGCA ATGACAATTC CCGCTTGCAA TCGGTATCTT	60
45	CAATATTATA ATCAGGTCTT GCCTTAGATT TTCGCTAAGT ACCGGTGATT CTCTACCATC	120
	ATACTCACCT CATGRGCTAT TTTTCTAGAG TGCTTCTTTT CACACTTTAT CTTATAAAAG	180
	GCTAGCTACT ATTACCGATT TATCATTATT AGTGGTTTTT ACCn	224
50	(2) INFORMATION FOR SEQ ID NO: 3245:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 117 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
JJ		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:	
5	GAAAGAGATT AGTGACAAGT TGGTTGTACT ATTACGTTAA AATTTGGAGA TTATGTGTGG	60
5	TGTTCAAGTA TGCGTTCAnT AATTGATATT GGCGCACCGT ATAACCATGT CAAAGTA	117
	(2) INFORMATION FOR SEQ ID NO: 3246:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:	
	CTACAGGCTT TCGTACCACA GGATCAAAAC TACGCACTGT GCCTTGTACA TACGCATGAT	60
20	CAGCAATGAC ATTCCAAGTA TTACCACATG ATATTTGnCC AATTGTTACT ACCGTTC	117
	(2) INFORMATION FOR SEQ ID NO: 3247:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 117 base pairs(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247:	
	TACACANCTT TCTACGTGTG TAGTTTATCG ATAGGTTTCG CATCATGAAA AGTGATAAAC	60
35	AGCCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCATGT	117
	(2) INFORMATION FOR SEQ ID NO: 3248:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
٠		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3248:	
	CCCGTCCTTT GGTGGAACCG TTTTGTAGAA TTAAATAATA TTACAGAGCC GCTAGCAGTA	60
50	ACGATCCAAA CGAATTTACC ACCATCACGT GGATTAGGAT CGAGTGCACT GTCGCGGTTG	120
	CNTTTGGTCC TGCCA	135

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3249:	
70	AAAAGCCAAC CCATGNAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT	60
•	AAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT	106
15	(2) INFORMATION FOR SEQ ID NO: 3250:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:	
25	AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAn	60
	TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA	120
	GA	122
30	(2) INFORMATION FOR SEQ ID NO: 3251:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:	
•	GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC	60
	CARATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC	120
45	CCAGTACATT AA	132
	(2) INFORMATION FOR SEQ ID NO: 3252:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:	
	GGAAAATCTT CAAATTCTGC AAATTGCCAA TTTACCTAAT AACCAAACAT CTAAGGCATG	60
5	TGTAATGCTG CTAChTCCGC TTCGTCATCA GCTACAATGA CAAATACAGG TGCCA	115
	(2) INFORMATION FOR SEQ ID NO: 3253:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:	
	TTTCGTCAAA TTATGGGAAT AAAATAATCA TATTTAAGAT AGTAAATATT GAATAAGTTG	60
20	CTTTGAAATT TATAAAATGA AAGTATAGTG TCATGGGNAG TATAATAGTC AGATATATAT	120
	GTAACGGCAC TATATTGAAA	140
	(2) INFORMATION FOR SEQ ID NO: 3254:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(B) 101023311 1111cu1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:	
	AAATCTCCTA CTTTTCTAC CCATAAATAA TTGGCTAACT TTTTCATCTT ATCTTCATCC	60
35	TTTCTCTTCT ATTTAAAATG CTACAAATAA ATTTCCGCGA GTAATTTTAA TGTTTTACAA	120
	CGCTGTTCAA TACCTGGAAT AAGCGGTGCT ACTAACACCT CATCAACTTC AFACGTAGCA	180
40	ATGAAATCAT CTAATTGTGC TTTAACCTWT TCTTGTGTAC CTGCAATGAT GCGTGCTTGg	240
	ATGTGCTTGA ATCATCTCTT TGTCTCGATC ATTAAGCTTA TACTTTTGTG CTGTGTCTAC	300
	TGAAGGAAAA TCTTCAAATT CTGCAAATGT AATTTACCNA ATAACCAAAC ATCTAAGGCA	360
45	GTTGTAAGCG GCNACTTCCG CTTCGTTATC AGCNACAAG	399
	(2) INFORMATION FOR SEQ ID NO: 3255:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:	
	ACCATTCGTC AAAATATTCC AACACGCATT TAGGTGTGCA AGGTATCGGT ACCTAACAAC	60
5	GAAGCTATCG TCTCACTANC CTTAAAAGAT TTTAGAACAA CAGCTGCACT CATCAT	116
	(2) INFORMATION FOR SEQ ID NO: 3256:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:	
	AAAGACCTAA GGTTATGTAA TTGGCCTAAA TTTATTAATC GTTTAAnTTC AGTTAGTAAA	60
20	AAGTCTGTGA GTAAGGGTGT ATGGAAACTG GTTAAATATT ATAGAG	106
	(2) INFORMATION FOR SEQ ID NO: 3257:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:	
	AACGTCCATC GTAATACCTT TTGTGTCTAA TGTAACTTGT ACATCGTCTA ATAATAAGTT	60
3 5	GACGATATCT TGACAATGCA TCTTTATCTA GATGTAAGAN TTCAACGGAT GCCG	114
	(2) INFORMATION FOR SEQ ID NO: 3258:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:	
	TTAAAGCAGT TAATCCACAG GGAAAGTGGT TAATACAGTT GGGCTCTGGT GGATAGTACA	60
	GTTGCAGGCA TGGTGGGCTG GGAATTGCTT CAGGGTTTAA CGAnTGGGAA AAGCCTT	117
50	(2) INFORMATION FOR SEQ ID NO: 3259:	
	(i) SEQUENCE CHARACTERISTICS:	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		. :
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:	
	GGACCGCCAT ATCGTTGGCA ATCATCGCAC CTATAATCAT CGCAAGTATA ATAATATTAG	6
10	CACCITGCAT ACTITITAAC CAGGITGITA ATGCCTCAAA AATATTAGAA ATTGGTGCCC	120
	GnTT	124
	(2) INFORMATION FOR SEQ ID NO: 3260:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:	
0.5	TACCAATGTA TATCCATATA CTTTTATCAT AATCATTTCA GCCGACTTTA GTTTGATGTT	.60
25	TTTGCTTGAT TAAAATCTTT CGGCGATCTT CAGCTTGATG TTTTCGTTTG ATTAAATTGG	120
	TACAATADAT	-, 130
30	(2) INFORMATION FOR SEQ ID NO: 3261:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:	
40	GGCCTTTTTG GGCCGGGGTT GGAAATTGGG GTTGCCTTAA TTTTTTAATT AAATTTTGGA	60
	ATTAAAAAAG GAAAAAnTCC AAAGGTTAAT TTTAAAAAAA GCCCAAGGTT TTAAAAATTC	120
45	CCCCAACCAA AAAGGGGGG AAAAAAGGTT GGGGGTTTTA AAAATTAnCC AAGGTTTTTG	180
	GGGCCCTCCC TTGGGGGTTG GGAATTAAAG GTTAACCAAG GTTTTTGGCC AAGGGGCCCA	, 240
	ATTGGGGGTT GGGGCCCTGG GGGAAAATTT TTGCCCTTTC CCAAGGGGTT TTTTAAAACC	300
50	CGGATTTTG GAAAAAAAA AGCCCATTTT CCCCCCAACC CNAAAGCCCA GTTCCCGCCC	360
•	ATTTTCCCGG GGTAACCCTG CCCCCACCGG GGCCATTTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3262:	

(A) LENGTH: 134 base pairs (B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3262:	
10	TGGTTCAATG GAAACGTGTA CCGCAAATmC CGTTAAATGT TGTTGGATGT TGAGAGACGT	60
	GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT	120
	GCGACGGCTG ATGG	134
15	(2) INFORMATION FOR SEQ ID NO: 3263:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:	
	TTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGTAGAT	60
	TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT	105
30	(2) INFORMATION FOR SEQ ID NO: 3264:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 107 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:	
40	GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG	60
	CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT	107
45	(2) INFORMATION FOR SEQ ID NO: 3265:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3265:	

	GTCGTAACAA TGGTTCGTTA CCAAAGCATA nTTCGCCTTC TTGGCATCG	109
	(2) INFORMATION FOR SEQ ID NO: 3266:	
. <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	, ,
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:	
15	TTACCTTTAA AATAANGTTC TCCACTAGTT GGGCTAAACA AATTACATAT TTTGCTTTTG	60
	GAAATGTACT TTTTACCACT ACCTGATGGA CCTATAATGG GCAA	104
	(2) INFORMATION FOR SEQ ID NO: 3267:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:	
	TAAGCCATCA GAAACAAATG CATATAACGn AACAACACAT GCAAATGGTT CAAGTATCAT	60
30	ACGGTGCTCG TCCGACATAC AAGAAGCCAA GCGAGAACGA ATGCATACAA TGTAACA	117
	(2) INFORMATION FOR SEQ ID NO: 3268:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:	•
	GCTGCACAAG CACAACCTGG AATCAGCAAC ACCGGCAAAC CAnCAGGTCA AGGAATAACC	60
45	AAGCAGCACC TCATAATAAT GCAACACCGG CAATCAAACA C	101
	(2) INFORMATION FOR SEQ ID NO: 3269:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:	
	CATACCCTAT TTTAGATATT ACCTTATTAC AAAATATTTT TACATTAATG TCAGCTGCAG	60
5	GTTAGTATTG TTTTCCAAAA TTTACCGGTC ATCTTTGCCA ATTGGGTGTC GCCAATCGGG	120
	ATTTATCCTA GGAAGCCGAT TAAAAGGGTA CTGCCAGGGT TTTAGCCTGC nGCTGCCTCG	180
	GGGTTTTCTT TAAATTAATG NAACCGC	207
10	(2) INFORMATION FOR SEQ ID NO: 3270:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:	•
	ATATTCGCAC CACCATAAAC ATAGATGGTG TTTTGTCCTT CTGCATTCAC AGTGATAAAA	60
•	GGGCTTGGnC CCGTTTTTGC TTCAGCTGTT TTGAATAATA TATGATG	107
25	(2) INFORMATION FOR SEQ ID NO: 3271:	
30 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
\ 	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:	,·
35	TTGGTTACAC TTCTGCTAGT TTTAGTAACG ATGGTCCAAG ATTGTATGAG CCTATTCATG	60
:	GATCAGCACC AGATATTGCA GGTAAAAACG TTGCCAATCC ATTTGGGATG GTTCTnATGC	120
10	TT	122
	(2) INFORMATION FOR SEQ ID NO: 3272:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3272:	
	GAAGGATGAT GATTCGGAGC ANCTTCTTGC AGAAGANGCG GNAATAACGT GACATATTGT	60

	TGCGAGCGCT TGACAATCTA TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA	180
	GAAATTAAAG CGGmGTTTAC TTTTGTAAAT GAGCATTTGA TTTTtTGAAA ATAAAGCAGT	240
5	ATGCAGGCGC TTGACTAAAA AGAAATTGTA CATTGACAAC TAGATAAGTA AAGTGAAAAT	300
	ATAGATTTTA CCCAAGCAAA ACCGAGTGAA TAAAGAGTTT TAAATAAGCT TGGATTCATA	360
10	(2) INFORMATION FOR SEQ ID NO: 3273:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273:	
20	TCAATTTTAA CTGCAAATAA TAAAGCTGCA TGATTTACTT TGTACATTAT TGTAATTTCA	60
	GTAATACGAG GCAATGTCAG TNGCAGTGTT TAATAAATTT TGTTCGCTAT TT	112
	(2) INFORMATION FOR SEQ ID NO: 3274:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:	
<i>35</i>	TACATTTATG CAATCAACGT TACATTCAAT CGTTGGAGAA AATTGGCTTT ATTGACTTAC	60
	TAAAATCTAA AAAATCATAT GAAAGAATTG CACATATGTT AAAAACLGGT AAGCCATTAC	120
	GTAATTAAAA GATAGTCATT AAGAGAGGAT GATAACCATG CAAGAAAGCA TACATTGTAG	180
40	CTTATGGGCG TTCAGCGCAG CGAAAGCAAA GCAAGGCGCA TTATTCCACG AAAAGACCTG	240
	nTGATGTCGC AGCCAAAGTA ATTACAAGGC GTATTTGAAA ACGTATTGAC GGGANAAATT	300
45	CCAATAAGGA TTATGGATTG nAAGATGGTC CATTTG	336
	(2) INFORMATION FOR SEQ ID NO: 3275:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC TGTTTTCGAA ACTAATTTTA	60
•	CCGGCGATAT CTGGCATCTT TTATTTCGGC ATTTTTTCAA ATCATGGTTA TTCCAGTTTG	120
5	GCGGCTTAAA AATTCnTT	138
• •	(2) INFORMATION FOR SEQ ID NO: 3276:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4.5		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:	
	CATTATACGA GNATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG	60
20	AAGATGCAAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A	101
٠	(2) INFORMATION FOR SEQ ID NO: 3277:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:	
	TGGTTATTCG TTCCTGATCG TTGTTGGTAT CTCACTATTC AANATTTATC GTGTGGCATT	60
35	ACTITAGITA CACCAGGIAC ATTIGAACCI GGCACTIGIT GCGAGTATIT CCGGICTCGI CATI	120
	(2) INFORMATION FOR SEQ ID NO: 3278:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:	
50	GACTTTTTGA CCAGTTGTAG CACGACCACC GAGAGTAGCA TTGCATATGC AATCATTGTA	60
	CCTTCGCCAA CGACTGnGCC AATATTAATT GTTGCGCCCA TCATAACGAC	110
	(2) INFORMATION FOR SEO ID NO: 3279:	

5	(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
	/will SEQUENCE DESCRIPTION OF TO NO. 2270		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:		
10	TTGGTATATA GAGGGCAACC GCACCTGATA AAATGTGnCA CAGTTTTTAC	AAGAGGTTAA	60
:	GGAATGAGTT TGGAGGCATA CGAGCATCAA GATACCATTC GATGTTAGTA	ATT	113
	(2) INFORMATION FOR SEQ ID NO: 3280:	٠.	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280;	•	
25	TTACCGTCAC CGTAATCAGT CCATACTTTA TCAGCTATAC CGGCTTTAAC	AGCATAAATG	60
	TTCGTTCCTG TAGGCATACC AAAGnCGATA CCATAGTGAC G	•	101
	(2) INFORMATION FOR SEQ ID NO: 3281:		
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
35			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:	•	
	ACTATGTTTG ANAAATTCGA CAGAATCAGA AGCACAGTCT GAGAACGCAA	GAAAAATTT	60
40	ATGACAAGTT AGATAGAAAT TTCGACGAAC TAAGGGCGTG ACCAAGAAGA	AGATGA	116
	(2) INFORMATION FOR SEQ ID NO: 3282:		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:		
	ACTTGGTTAG ATAATATAGC GTCGATTGTA TCACGAGTGT CTGTTCCAGT	CATTATAAAA	60

	CGTCGTTCTG ATGCTTTTCC TGAATCAT	148
	(2) INFORMATION FOR SEQ ID NO: 3283:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	• • • • • • • • • • • • • • • • • • •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:	•
15	AAATGACGAT AGAGTCAGGT ATTAACTCAT TTTTCAATAG TATCAGGAAG ACTACCAAGC	60
	TTATGTTGAA GGGCATCTTT TGGCGTTACC GGGTTGGGCA	100
•	(2) INFORMATION FOR SEQ ID NO: 3284:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· .
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:	
	TTAAGAAACC GAGCAGCGCA TAAnCCTGCA GTACCTTATC GCTTCTAGAT AATCCGATTG	60
30	CGACACCATT GCAAGATGAC CGGTAATTTT GGAACATATA C	101
	(2) INFORMATION FOR SEQ ID NO: 3285:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:	
	TAAAATATTT CGCATCCCTA CACGCTAAAA TAATACATTA CACTTAAAAC GGCTGTTTTA	60
45	AAGCATCCTC CCATAAACAT CATCTAGTTG ATAATAGGGG GGGGGn	106
	(2) INFORMATION FOR SEQ ID NO: 3286:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	`

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:	
	TITAACAATA CCTCAGAACA TACTATGGAA ATTGCTGCAA AGTTAATTGG GCATGCATAT	60
5	TGATCATAAT GCGCTTTTAA ATAAAATGGT GGAGA	95
	(2) INFORMATION FOR SEQ ID NO: 3287:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:	
	TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT	60
20	AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCNAG AACCCATTTT TTGAATATTT	120
	CACCACTCGA ATCATCAATA C	141
٠	(2) INFORMATION FOR SEQ ID NO: 3288:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288:	
35	TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA	60
,	GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA	107
	(2) INFORMATION FOR SEQ ID NO: 3289:	
40 ,	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:	
	GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA	60
50	GATTTACGTA TGTCTACAAG TTTAGGCGC	89
	(2) INFORMATION FOR SEQ ID NO: 3290:	

5	(A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:	
10 -	TGTTACGCCA ACAACAAATC CTACGTCGAC AACTATTTTT AAGCGATGAT TGCAATTAGA	60
	CAGAAATCCA ATCATTTTTG CATTCCATCC AGTGCACAGA ATHTCGAG	108
	(2) INFORMATION FOR SEQ ID NO: 3291:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:	
25	GATCAAGNCC TGAGAATTTA ATTTAATTTA TTTTTATATT GGAGATGGTT AAAATGCTAA	60
	AACTCAACAT GAGTAACCAA AATATTGCCC TTAAAAATGC TGATCATTG	109
	(2) INFORMATION FOR SEQ.ID NO: 3292:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:	
	TTGATAATTT TGATATAGAA AGTTATTTAA AATTCGAATA AAAATAATAA CTCATCGACG	60
40	TTTAATGGCT AGGTTCCAAT CAACTATGNG ACATAAATTC AAATTCGATC ACGTAACGAA	120
	A	121
45	(2) INFORMATION FOR SEQ ID NO: 3293:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3293:	
<i>55</i>		

	GCGCGTAATA CCTGCAGTAC CTCTATCGCT TCTAGATAAT GCGGTTG	107
_	(2) INFORMATION FOR SEQ ID NO: 3294:	•
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 111 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:	
15	AAAATGTTAA ACCAAAAAGT TTGGTGAGTT ATAATATGGA ATATTAAATC TGTAGAAGAT	60
	AAAGCGAATA TAAAGTGATT AACTTTGGTA ATAAAGAATT AACAGCGAAA n	111
	(2) INFORMATION FOR SEQ ID NO: 3295:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 105 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:	
	CCCCGACTAA ATCGAACGCT TTAATGTAAT GATTTGTCCG AATCCCCATC CTGCACCTGA	60
30	TAATAAGGCG AATAGCAAGT TGGTTCCCGT nGGGAAGCCA CTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 3296:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:	
	ATTTATTCAA AACCCGCCAC ATGGGGCAAC GGTTGCCATG GCATGATAGT CCAGATACAT	60
45	GGAAAGGAAT ACAGTCCGGT TAACACTCCA TTAAAAACCT GCGGGTTGGT TAAACCATTT	120
	AACCTAAATG GGTTCCAAGG GTTAACGCGG TTTAAATGTT TGGAAAGGTT TnCCCAGTTT	180
	CCAAAAAGTT TTTnATTCCC C	201
50	(2) INFORMATION FOR SEQ ID NO: 3297:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:	÷
•	TTTAGACTTT CATCAGTGTT GAATATTTCT CCTTTAACGG TTATAGGTAA TATTTCCTGA	60
10	GAAATATTTC CATTCTTTAC ATTTTCCGCT GTCAATTGAT GACTTCGATA AGCAAATTCA	120
	TCTTGTAATT CTCTTGAAAC ATCATACATC TKGGCCACAT TTTCAGCACC TKGAATCATT	180
	GATGGGTCGC TCATTTCAGG TGCAAATGAT GCACGCTCAT AAAACTCAGG TAATGCTGTT	240
15	TCGTACACAG AATGCGGTCG TTTGATTTTC CAAGGTGCTC GACTTGTACT TTCAACACCA	300
	CCTGCAATAT ATACCTTGCC AGCLCCGGCT TGGATCATGC GACATGCATA TTGAACACTT	360
	TCAAGTCCAG ACCCACATTG CCGATCGTTT GTGACGCCAG TATTGAAGCT TAAGC	415
20	(2) INFORMATION FOR SEQ ID NO: 3298:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:	
	TTAATTGCAG CAGAGCGACT AGCTGATTCA GAGGTGTTAG TTTGTACGGT AATAGGATTC	60
	CCATTTAGGT GCATCGACCA ACTGCCCGAC GAAAAGCCAT TTTGAAAACC AGAAAGATGC	120
35	CGATTCAAAA ATGGGTGCCA AGATTGAAAA TTTGGACCAA TGGG	164
	(2) INFORMATION FOR SEQ ID NO: 3299:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	, .	
45 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:	
•	GTAGATGCCA TTTTCACGTT TCTTAGTTAT TGGCATTTTT TAAATGCGAT GTGTGGCTTC	60
50	TACATAACGG GAAATTTTAA GTTTTATGAA TChACATATC AATTGC	106
	(2) INFORMATION FOR SEQ ID NO: 3300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:	
	AAAAGGTGTT ATGAGATTAG TAAATCAnTA GACAAGCAGG TAAATTAAGT GATGTCGCGT	60
10	CATTTAAGGA AGCGATTCAC AATCGAGAAC ACAAAGTACA AC	102
	(2) INFORMATION FOR SEQ ID NO: 3301:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:	
	TTAAAAGTTT GGAGATTATC GTGTCGTCTT CAAGTATGCG TTCATTAATT GATATTGGCG	60
	CACCGTATAA CCATGTCAAA GTACCATTTG NAATCAGTCA TTGGCGCATT GGCTGCCCTA	120
25	GCGTTCA	127
	(2) INFORMATION FOR SEQ ID NO: 3302:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:	
	CCAGCTAGAC GATTGCTAAG GTATTGGATG TTTGAAACGT CCATGGACCC AATTGATTAA	60
40	TTGGnTGTAA CTCGGTCAAT GGGTATATCC TAAATGCACT GGCCTGCTGG TGTTCTTCTG	120
	GGCGTTGCTT CGGAAAT	137
	(2) INFORMATION FOR SEQ ID NO: 3303:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:	

	ATATAAATTA ACGACGCGTT AATGCAGGCT GATGTGATTT TTATTGGTTT CCCAATTTTC	120
	AAGCTTCCAT CCCTGGTGCT TTGAAAAATG TGTTTGATCT ACTTCCAGTC AATGCGTTTC	180
5	GTGACAAGGT AATAGGACTT GTAGCGACAG CAGGTTCTAG TAAACATTAT TTAATTCCTG	240
	AAATGCATTT AAAACCAATA TTGAGTTACA TGAAAGCACA TACGATGCAA ACGTATLATT	300
	TATTGAAGAG AAAGATTTTT CAAATCAACA AATTGTCAAT GATGATGTTG TATTTCGGTT	360
10	AAAAGCGTTG GCACAATCCA CAATGCGAAC TGCCAAAGT	399
	(2) INFORMATION FOR SEQ ID NO: 3304:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:	
	CACCATTATT TACAGGACCT nCGATGACGT GTGGTCCTGT GTTAAGACAT AACATAATAT	60
25	TCTACCTTTG TAATCAGTAC GGGTTTATCT ATCACAGTAC GG	102
	(2) INFORMATION FOR SEQ ID NO: 3305:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:	
	TCAGCGTTAT CAATGANTGA CTCTAATGCC TTTTTACCCA TTTTTGTAAA TGGAACATGG	60
40	AAGCATAGAG ATGCGYAGTC AGCTAGCGAC TTACCTTGAC GTTTTGCGTA TTCATTCCAG	120
40	CTTTGTTGGr ATGAGCGGAT ATAAGCATCT TTAGATAATG CACCATCAAC TAATGGATAT	180
,	TTATGTCCAG TTGGACGCCA GA	202
45	(2) INFORMATION FOR SEQ ID NO: 3306:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAGATAGGGA TTTACACCTA TACCTCGTTC CGGGGAAGGG TCGGTGTTCT GAAAAGTTGG	60
	AACTACTCCC GnCAAATATT AAATTATGGG AGCGGGAAGG ATCAGGGATT TGACACCTAT	120
5	GACCTCCATT CCCAGGGAAG GGAATGTGAT T	. 151
٠	(2) INFORMATION FOR SEQ ID NO: 3307:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:	
	AATTTCGTTA CCTGCGCCTT CTTTTTGCGG TTTTTAAATA AGCGAAAATT TCAGGCGGTA	60
20	AGACATAACG TCCCAGAATA GCTAGGG	87
	(2) INFORMATION FOR SEQ ID NO: 3308:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:	
	ATGATGGCAA AGTCACCAAA CTGATTGTGC ACACCAATCC ATCCATCTGC GCTGTAAATA	60
35	ATGGTTCGCA ATAATTTTAA AATACCTTCC GCTACATTTG ATTTAAAGCT GGTTGCGCAn	120
	TGGACTAGA	129
	(2) INFORMATION FOR SEQ ID NO: 3309:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 128 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(wi) CECITEMOS DESCRIPTION, SEC ID NO. 2200	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:	
50	GTTCCTTTTA TCGTAGTTGG TGGGACTCCT TATCGGCATC GCGGCTGGAC TCTAGGCGGT	60
	GGANACGGAC ATTCAAAAGG GATTTAGTTC ATCCCAGATG GATTTCATTT TGGGGAATTC	120
		120

(i) SEQUENCE CHARACTERISTICS:

<i>5</i>	(A) LENGTH: 83 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3310:	
10	GTACGATTCA GCATAAAGTA CACCACATTT GTCACTACGA CATCTGTAGC TGGTATTGAT	60
	CATGCAATCA TGAATAACGC TAA	83
15	(2) INFORMATION FOR SEQ ID NO: 3311:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3311:	,
25	CTGAGGATAA AGCGTCTCCA AGATAAGTCT AAAGATCATC ATAATGGGCA AAAAAGGTGG	60
	CAGCGATTCG GTGGCTGGGA ACAAG	85
20	(2) INFORMATION FOR SEQ ID NO: 3312:	
<i>30</i> <i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:	
40	ATTTTATGTC TAAATGCTGG ACCAACAGTA TTGGCTATTA TTTGGTAACG TGATTACTAC	60
	AAAAAATGGA CCGTTGAGTT CGTGGCACAT GATTGATTTT GTAAGTAAGT ATGATGCACA	120
	TGGGCTnTT	129
45	(2) INFORMATION FOR SEQ ID NO: 3313:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	TCACCTAAAA TTAATCAAGG GACTTAACAT TGGCGAGTCA AGGTATTGAT CAAGCTAATG	60
	GCACAGTTAA ATGATGCCAA AG	82
5	(2) INFORMATION FOR SEQ ID NO: 3314:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: B7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:	
	ATGTTATGGA AGAATATTGA GTTAATTGGC AACGACATTA TACCGGCGAT TAAAAAGCCT	60
	TTATCAAAAT AGTGAGGGC GTCATCA	87
20	(2) INFORMATION FOR SEQ ID NO: 3315:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	٠.
20	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315:	
	TGAACCCGTC GTTGCCCATT TGCCGGTTCC CGAAAGCCGG CGCChACGGT TCTCCCTGCC	60
	TAAATAGGGG ATGGAATATT AAACCATCTG CACCTGGTTT AACACGCTTT GCAATTTGAG	120
<i>35</i>	TTAAGACATC ATAAGG	136
	(2) INFORMATION FOR SEQ ID NO: 3316:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:	
	CATTGGCTGT GTCCATTTTT AATCGTTGCG AGTACGTnTA TTAGCAACTT GGAACTGCCA	60
	TTGTTAATTT CAGCTGTCTG TTACATTTCA ACCATAGTCT TTCACAAT	108
50	(2) INFORMATION FOR SEO ID NO: 3317:	108
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 142 base pairs	
<i>55</i>	·	•

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:	
	ATCTGAAGCT GGGTTTACTA GAGAAGGTAT GTACGTGACA TGAATTACTA ATGGATTTAT	60
	TCATCGAGTT ACATCTATAG TTTATTAAAT CAGATACGCC AAAATGCAAA TTAGCTTACA	120
10	AAGATGATGC ATTAAATGCA CG	142
	(2) INFORMATION FOR SEQ ID NO: 3318:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318:	
25	AACATTATGT TAATCAACCT AATGAACGEC TTTATAAATT ACGCTAAACA ATATACAGAT	60
25	ATGCCGTTTC TTATCATGCT GGATGAAGAT GAAAATGGAT ATAAAGCGGG TCGATTTTTA	120
	AGAGCGAGTG ACTTAGGTCA AACAACAGAG CAAGGCGAAT GGAAGCCAGT TATTCATGAT	180
30	GCAATCAGCG ATAGTTTAGT AGTACCTAAT GGCACAATGG GTCAACGTTG GGAAGAAGGT	240
	AAGAAGTGGA ACTTAAAACT AGAAACAGAA GATGGTTnTA AAATTANCCC TACATTATCA	300
	ATGACAGAAG GTGGATACGA ATTAGAAACA ATTCAATTCC CATACTTTGA TAGTGATGGA	360
35	GATGGGATAT CATCGTCCAA TCCNAC	386
	(2) INFORMATION FOR SEQ ID NO: 3319:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:	
	ACAATGAATG ACATGATTCG AGGTGGACGA CCCCTCCTAT TTTGCATAAA TGCTTTTTGA	60
50	ATCGCCGGTC ATAATGTTCG TTGnCCAATT AACTCAATAT TCTTCATGAC ATTTTCAAAT	120
-	GGC	123
	(2) INFORMATION FOR SEQ ID NO: 3320:	

5	(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:	
10	GGCGAACTGT CAATTGCCGG TATACAACGT ATTTTAAGAG CTGCAGAACA THCGGGTGTT	, 60
	AAACGTGTGG TCAATGACTG CCAACTTTGG TGCAGTTGGT TTTA	104
	(2) INFORMATION FOR SEQ ID NO: 3321:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		-'
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:	
	GCGCCGGTTT TAACAGGTAA TTTAAAACCA AATACTGATA GTAATGCATT AATAGTCAGC	60
25	AAAATACAAG TATT	74
	(2) INFORMATION FOR SEQ ID NO: 3322:	•
30 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:	
	TCACTCAGGG GGAGATGTCA ATGGGTCAAC ATTATTTGAC AAGGTGTGGA CAGACATGTG	60
40	TTATACGGGA AATTGGGCGA CCGCACT	87
	(2) INFORMATION FOR SEQ ID NO: 3323:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:	
	TGCCAAATGT TCCCATAATT TCATTACGAn TCTTAAGTAG GTGGCTATCA TTACGATGCG	60

	AATGCGGTCG GAAAGATAAA TAGCTTCATC AATGTCATGC GTCACTAAAA TAATAGTTGA	180
	TTGCGTTTTA TGTTTTAGTT GCACTAGTTG ATCCTGAAGT TTATAACGTG TAAATGCATC	240
5	TAATGCACCT AATGGCTCAT CCATCAATAT AACGTTAGGC TTATGCACAT GCGCTCGACA	300
	TAGTGCCAAA CGTTGTTTCA TACCCCCGGA CAGTTGCTCG GGAAAATGCT TTCCCCTGTC	360
	TTCTAAATCA ACTAATTTAA GCTGTGCGTT AATCTCTTCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3324:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:	
	GAAACCATCG ATTGTAGCAC GAACCATGTT GGATTGGTGT GTTTGnATCC TAATGTATTT	60
	ACTTAAGATA TCAGTGATAC CTGTCTAATT GCAAGTACGG TCAGGA	106
25	(2) INFORMATION FOR SEQ ID NO: 3325:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325:	
<i>35</i>	TCTGAAnTCG CTGTCTGAAT CTGGAATCAC TGTCTGAAAT CCGAAATCGC TAATCTGAAA	60
	TCCTGAAATC CGCTAATCTG AAACCTGGAA GTCGCTGGTC TGGAAGCCCT GAA	113
40	(2) INFORMATION FOR SEQ ID NO: 3326:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:	
50	TGTCACGTAC TTGCTGTTCA ACAAATACGT CTTACTGGAC GTGCACCTCA TTCTTCATCA	60
	TAGCCTTCTT CATTAACC	78

5	(A) LENGTH: 119 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:	
	AATTGAAAAT TATCTTACTG CGGTTTTTAG GGGTTTATGT CCCAGCCTCT TACTChAATT	60
	ATATTCACTA TCCATTAGAC CAAATGGGCC ATTTCCAATA ATCCCGCGGT GGTTTCCGA	119
15	(2) INFORMATION FOR SEQ ID NO: 3328:	
••	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(b) TOPOLOGI: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328:	
25	GTGTTAAAAC GTCACGACGT TTGTTTAAAA TGATGCGTCA TAATGTCTAC ACTTTGCTTG	60
	CGATCATTCA T	71
	(2) INFORMATION FOR SEQ ID NO: 3329:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(b) Topobodi. Timeai	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:	
40	CTGACGAACC TTGCATCATT TAACTGTCCA TTAGCTTGAT CAATACCTTG ACTCGCAATG	60
	TTAAGTCCTT	70
	(2) INFORMATION FOR SEQ ID NO: 3330:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:	

	CCAATCTCG	69.
	(2) INFORMATION FOR SEQ ID NO: 3331:	
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3331:	
15	GGACACTAAC ATTAATATGG ACTGGTAATG TTGCTGTTAA TAAACTCATA CCAAATCCTG	60
	GGCATCTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 3332:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3332:	
	CCTTGGGCAC CTTCAATTTG CATATTACGA CGTTTTGCAG CTTGGTTCAA TTGGCAATAA	60
30	CTACACCTAG TGCAGTTGGA TC	82
	(2) INFORMATION FOR SEQ ID NO: 3333:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3333:	
	ATAAAATAAT TAGAACTCTA ACATTGGTTT AACTAATGTT TAGACTTTTT GTGGTTTGTA	60
45	AAAACAAGTA TATTGA	76
	(2) INFORMATION FOR SEQ ID NO: 3334:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	•	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:	
	TGGTAAGTTG AATAAAGTAT TGAAATCGTT GCCAATATCT TTATACCGTT GGTTCCTGGC	60
5	ATTTATTGGG AGGC	74
	(2) INFORMATION FOR SEQ ID NO: 3335:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		ı
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:	
	AGATAGTTAT GCGCAGTTAA AAACGGTGAA ATGTATTTGC AATAATATGC ATATAGGCAC	60
20	CATACGAGTA AGGG	74
	(2) INFORMATION FOR SEQ ID NO: 3336:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:	
	TTGAATCATT GTTAAAAATG GAATTAAAGT TGCTAGTATC TGTCGGGTTT TGAAATAGGT	60
	CATAGGAGAA AACAGG	76
35	(2) INFORMATION FOR SEQ ID NO: 3337:	
40 • 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:	
45	CCAAAGAGGC GTTATTAAGC TATTGATAAA AGTTATGTTA CTAAAAAATG TATTTAAATA	60
	AGTAGTACCT AA	72
50	(2) INFORMATION FOR SEQ ID NO: 3338:	_
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:	
	ATAAGTCGTT CTACCGTATA GCCGTCATTA TTAATCACAA ATAATACCGG TTTAATATGC	60
10	TGTCTGGTCA TAGTT	75
	(2) INFORMATION FOR SEQ ID NO: 3339:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(wi) graywan programmay and the same	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:	
	TTCATCAAAG TATTCCAATG GGAGAAAAAG CACAATAACA TTATCACTGG ATGCTAAATC	60
25	TAAAGGAACC TC	72
	(2) INFORMATION FOR SEQ ID NO: 3340:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3340:	
	GTAAAAATAT TTTAATGAAT GTCTTCACTG GAGAACCATT GACAACCTGG TACAAGTGGG	. 60
40	ATTATTGGCG TTATTTT	77
	(2) INFORMATION FOR SEQ ID NO: 3341:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 67 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:	
	AACCAAGGAT GGATTGCTAT TTTAATCCTT GGTTGCTCTT TATTTTATTT	60
<i>55</i>	ACCTAGA	67

.5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	y *
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:	
	CTGGCAAAAG CACGTTTTAC AAGCATCAAT CCATTAATTA ATAATTCCAT TAAATGTAGA	60
	TTCACAGGGA TATG	74
15	(2) INFORMATION FOR SEQ ID NO: 3343:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:	
25	GTTTGATCAT TAGAGAGATA TAGATATGCC GTAGAAAATA ATATGTCATT TGCGGATATC	60
	ATGGTTAAAG AAGAAATGGA ATTAAGCGGT AAATCACGTG ATGAAGTGCG AGCGAAATGA	120
30	AACAAAATTT AGATGTCATG CGAGACGCAT AATCAAAGGG ACGACAGGTG ATGGGGTTGA	180
	AAGTGTACGG TCTACACTGG TCATGATGCT GCTAAACTAC GTGATTATAA TGAAACACAT	240
	CATGCTTTGT CTGGGATATG AAATGATTGA CGCACAAGGG TGCCATTGCA ACAAATGAAG	300
35	TCAATGCTGC CGATGGGTAT TATTTGTGCA CGCCAACAGC TGGTTCCTCG GGTACCATTC	360
	CCGGTGGCAC TTTTAAATTA GAAAAAACAC TGGATnGAAC CAGAAGAGCC AATGN	415
	(2) INFORMATION FOR SEQ ID NO: 3344:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:	•
50 .	TCCTATACCA CCACCGTCAA CAGCTCCTGC CATCGATCGT ACTTTCAATA AGTCCAATAA	60
	TCGCAGTGGT AATTTCTAAT ACTA	84
	(2) INFORMATION FOR SEQ ID NO: 3345:	

. 5	(A) LENGTH: 474 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:	
10	CGGGAGGTGT TAANTCTTCA CAAAATGCCG TACTATTCTT TGATGNAATC CATCAAATTA	60
	TCGGTTCAGG TGCCACAGGA AGTGATTCAG GTAGCNAAGG GTTATCTGAT ATTTTGAAAC	120
	CTGCATTAAG TCGTGGTGAG ATTTCTATTA TTGGTGCAAC AACACAAGAT GAATATCGAA	180
15	ACANTATTCT TANAGATGCT GCATTANCGC GCAGATTTAN TGANGTGCTT GTTANTGANC	240
	CAAGCGCTAA AGATACTGTT GAAATTTTAA AAGGTATTCG CGAAAAATTC GAAGAACACC	300
	ATCAAGTAAA ATTACCAGAT GACGTATTAA AAGCATGTGT TGACTTATCA ATTCAATATA	360
20	TTCCACAACG ATTATTACCA GATAAAGCAA TCGATGTGTT AGATATTACA GCAGCACATT	420
	TATCHGCGCA AAGHCCAGCT GTCGATAAAG TTGAAACTGG AGAACGAATT TCTG	474
25	(2) INFORMATION FOR SEQ ID NO: 3346:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346: AAAATTAATA ACTCCTTGGT TATTGATATG CCTAAAGAAG AAGGTACAAT ACAACTAACA	60
	TTAG	64
40	(2) INFORMATION FOR SEQ ID NO: 3347:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 89 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:	
50	AGGAATAACT TGATATTGAT GATAAAATCG TCAAACGGCA CTAATATTTA AAAAACAAAT	60
	GTTTTAAGTT GTTGATTTAA AATATTAAT	89
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 3348:	

(A) LENGTH: 107 base pairs(B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348.:	
10	ATAACTTGTA CTGCTTCCCA TTAATCACTG TGTCTCTTCA CCAGGAGCTG GCATTTCTTT	6
	AAAGAACAnt TCTGATAAAG GTACAATTTC ACCGGGCATA ACTTCAT	10
	(2) INFORMATION FOR SEQ ID NO: 3349:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:	
25	CAACGCATCC TGCACTTTTA CCTATTCCTG AATCACCGGT AATTAGTACA CCAACACCGT	.60
	AAACATCTAC TAAA	74
	(2) INFORMATION FOR SEQ ID NO: 3350:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:	
40	AGATGCACCT ACTTCTAACT GTCGCCAACA TCGCCGCAAT CATTTCAAAA CTACGTTCTG	60
40	TA	62
•	(2) INFORMATION FOR SEQ ID NO: 3351:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:	
	GCTGCAAACA ACAAACTATT TTTGATTAAA TTGTGGATAT GATGGTAACC AACCAAGTCT	60
55		

	(2) INFORMATION FOR SEQ ID NO: 3352:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:	
	ATTGAACGCA AGATTTCGAT ATAGAACATC TAGCGACGTC GATTCGCAAG GTTGAACCAT	60
15	CTACATTAGG TGAGGAA	77
	(2) INFORMATION FOR SEQ ID NO: 3353:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	٠.
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:	
	TAATCAACAC GAGGAGATGC TATTTAATGT CATCTGACAC AAACAGTTTA GCACATACA	59
30	(2) INFORMATION FOR SEQ ID NO: 3354:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:	
40	TTATGTAACC GACGAATGCT GCGATAGTGC TACGCCATCA CCGCCAGCTA ATCCGATTG	59
	(2) INFORMATION FOR SEQ ID NO: 3355:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:	
	TAACTATACC TTTAGGGTTA CTACCACGCT TAGGTAGGTC ATAACCTTTA ACCACATCT	59

;	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:	
o .	AATAACGCTA AACCTAAAAT GCTAAATAAT CCGCCGAACA ACATGCCGTT GTTTGTTGA	5.5
	(2) INFORMATION FOR SEQ ID NO: 3357:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
o		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357:	
	CCAGAACCAC CCACGCCCTT TGAATATGGG AACTCAAAAC GATCTACTGG CTGATGTAAT	60
5	TACCCCTGTT TTGATTG	77
	(2) INFORMATION FOR SEQ ID NO: 3358:	
<i>o</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358:	•
	AAGTTAGGTC TAGGGAACAT CGATAAATTA CCAGTAGTAA ATGCAGTTGA ACAACCAGA	59
0	(2) INFORMATION FOR SEQ ID NO: 3359:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359:	
0	CATGACCTTT AAATTGCATA TCTTCTGCAT CAGGTGCATC GCTTTTAACA ATAACGTCA	59
	(2) INFORMATION FOR SEQ ID NO: 3360:	•

5	 (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3360:	
10	ACGCGACAAC ACCGCCCTCA ACTAAAGTAG AAGCACCGCA ACAAACAGCA AATGCGACA	59
	(2) INFORMATION FOR SEQ ID NO: 3361:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3361:	
	GATTTGATCG AATTGAACGA ACATTTGCTT CTCAAACGAT TGCATCTATT AAAGAAGTAT	60
25	GTCTAG	. 66
	(2) INFORMATION FOR SEQ ID NO: 3362:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3362:	
	GGTTGCACAT CTTTTACTAC AAATTTCGCT GGTAAAGATG TTGCAAAAGT ATGTCCGT	58
40	(2) INFORMATION FOR SEQ ID NO: 3363:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3363:	
50	CCTTGAAACG GCAACATTTT TGGGTCCTTC TCCATCATTT TATTTAAAAG CGCATTAT	, 58
	(2) INFORMATION FOR SEQ ID NO: 3364:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
_		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3364:	
	TTGAGAATTT AGGAGGTTAA TGCGTTGATT AAAAGTGGCA AAGCACGTGC ACATACGA	58
		50
10	(2) INFORMATION FOR SEQ ID NO: 3365:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3365:	
	GTTTTTTAT TTTGGATAAA AGGAGCAAAC AAATGGATAT TAACTGGAAA TTGAGATT	58
	(2) INFORMATION FOR SEQ ID NO: 3366: -	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3366:	
<i>35</i>	ATTCATCGGT AATGACATTA TTTTTACTTT GTAATTTCAG TAACAGTTGA TCATCATG	5 B
,	(2) INFORMATION FOR SEQ ID NO: 3367:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3367:	
	TAAATTAACA GCCGGATGAA ATGAAAGGTG CTACATGCAC AATCAGTAAT ATCGGTTC	58
	(2) INFORMATION FOR SEQ ID NO: 3368:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3368:	
5	TACCTACTGG TGAGATTGGC GAACTTGCAA TTAAGGCTAA AAATGTCACG CCAGGATA	58
	(2) INFORMATION FOR SEQ ID NO: 3369:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3369:	
	TTAAACGGAG AAGGCTTTAC TTTACATGTT GAGGAAGGTC AAGAAGTTAA ACAAGGTG	58
	(2) INFORMATION FOR SEQ ID NO: 3370:	
20	(i) SEQUENCE CHARACTERISTICS:	
:	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3370:	
30	CTGCTAAACT ACGTGATTAT AATGAAACAC ATCATGTCTT TGTCTGGTAT ATGTAAATGA	60
	TTGACGGC	68
	(2) INFORMATION FOR SEQ ID NO: 3371:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs	
٠	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3371:	
45	ATTACCAACA GCGAAAATAT TGAAAAGCTG TAAAAAAGCT GGTGCAsmCm TACTTGGATT	60
	GAGAATTTAG GAGGTTAATG CGTTGATTAA AAGTGGCAAA GCACGTGCAC ATACGAATAT	120
	TGCACTTATA AAATATTGGG GTAAAAAAGA TGAAGCACTA ATCATTCCAA TGAATAATAG	180
50	CATATCTGTT ACATTAGAAA AATTTTACAC TGAAACGAAA KCACTTTTAA CGACCAGTTA	240
	ACACAGGATC AATTTTGGTT GAATGGTGAA AAGGTTAGTG GCAAAGAATT AGAGAAAATT	300
	TCAAAATATA TGGATATTGT CAGAAATAGA GCTGGCATCG ATTGGTATGC AGAAATTGAA	360
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 3372:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3372:	
•	ATTTCAACAA CTTTAAAGCA CGTATAATGA TGATTTTCAG ACTTGTACAA AGGAGAAA	58
15	(2) INFORMATION FOR SEQ ID NO: 3373:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3373:	
25	AAACCGAGCA GCGCAGTAAA CCTGCAGTAC CTTTATCGCT TCTAGATAAT CCGATTG	57
	(2) INFORMATION FOR SEQ ID NO: 3374:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠.
<i>35</i>		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3374:	
	AGTACGAATA TTACCTTTAT TTAATGGGTG AGCTAAGTTA CTTTCATTT CTTCGTG	57
40	(2) INFORMATION FOR SEQ ID NO: 3375:	,
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3375:	
	GGTGAAGTAT AACTTTGTAA TGGCAGCGCA CTTAATGACT GCCAATAATT GTGACCAACA	60
	ACTAACAGAC	70

(i) SEQUENCE CHARACTERISTICS:

<i>5</i>	(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3376:	
	TTCCAAACTT CATTAGGTGA TAGCTTTAAT TTCAAGGCTG GCAATCGCCA TAACAAG	57
	(2) INFORMATION FOR SEQ ID NO: 3377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3377:	
	TCCTTCAAAG TCAATGGATT TGATCCTCAG AGGACTCAGT GTATCCTCCA AGTGACCTGG	60
25	CTCGCATCCA '	. 70
	(2) INFORMATION FOR SEQ ID NO: 3378:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		•
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3378:	
	ATGAATCATT AAGCCTTTCG GTGCATATGC TGCAAGACTT TGACCAGCAT GACCAT	56
40	(2) INFORMATION FOR SEQ ID NO: 3379:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	•
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3379:	
	CCAACGACTG CGCCAATATT AATTGTTGCG CCCATCATAA CGACAGCACC ATCTTC	56
	(2) INFORMATION FOR SEQ ID NO: 3380:	
55		

5	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3380:	
10	ACAAAAGCAT CAAGCTGTTG AAACAATCAA TGATAGCATT CGAGATTATT TAGTTAG	57
	(2) INFORMATION FOR SEQ ID NO: 3381:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3381:	
•	CATATAGTTT TGCTCACTAC CATAACCTGC ATCAGCTACA AATAACCGAA GTATTT	56
25	(2) INFORMATION FOR SEQ ID NO: 3382:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3382:	
35	GAACACAG GCAACCCAAA GCAGTGACGG CGAAANTTGG ATTGATCTTG CAGCATTGAA	60
	GAAGATCGCG ATGACTATAC AATCAATATC GAGTAGAAGA CCGAT	105
	(2) INFORMATION FOR SEQ ID NO: 3383:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3383:	
50	ngtatgtgaa aactatttgg cgatatttta gtgatgagcc tcagtgatcc tggttcctgg	60
50	TTATCACCTC TGCTAGTTTA GTACCGATGG TCCAAGATTG ATGAGC	106
	(2) INFORMATION FOR SEQ ID NO: 3384:	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		, ,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3384:	
10	TTCTTCGTCA AGATCAATCT CTTCAAGTAC AATCTTTAAT ACCTTCTGCA CCCATTT	57
	(2) INFORMATION FOR SEQ ID NO: 3385:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3385:	
	CGGGCATCTT AAAGCCGATG TTTATCCTGT AATCCTCCAA AAGGAAACAT GTACCTCAAT	60
25	TAGAG	65
	(2) INFORMATION FOR SEQ ID NO: 3386:	
30 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3386:	
	CATTTTAAT TATTTCTATT TGCTTTTTAA CCACTTCTCT GACTGCTTCC GAATCATTTT	60
	TCTTAACTGC A	71
40	(2) INFORMATION FOR SEQ ID NO: 3387:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3387:	
	TTAGAAAATG ATAAACGTAA AGCAGTAAGT GCTGAAGAAT ATAAAAAAGC TGACG	55
	(2) INFORMATION FOR SEQ ID NO: 3388:	

5	(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3388:	
10	TCTTCGACAA CTTTAATAAT ATTAGCCAAC GCAGTGTCCC CGCCAACTTT TGTTGC	56
	(2) INFORMATION FOR SEQ ID NO: 3389:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		. •
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3389:	
	ATTTATTAAC GATTAATGAC GCTGGCATGC CAATTCCAGA TGATCATCGT CGTATC	56
25	(2) INFORMATION FOR SEQ ID NO: 3390:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3390:	
35	AAATGCTATG TACCCACTTT AGATGAAATT TTAGTAACGT TATGGCCCGA AATGCCAACT	60
,	ATTATATTGA	70
	(2) INFORMATION FOR SEQ ID NO: 3391:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3391:	
50	CAAACGCAAT AGCTGGTGAC TTAACTGCGG GCACTTGGCA TGTGGATGGC AATACTTCG	.59
	(2) INFORMATION FOR SEQ ID NO: 3392:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
55	,,,	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

		•	
5		•	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3392:		
	GCATCTACTG GGAAACGATT ACAAATTGGT GATTTATTAC AAAAGCCAAC	TGTAT	55
10	(2) INFORMATION FOR SEQ ID NO: 3393:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• • •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3393:	٠.	
20	TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG	GATTG	55
	(2) INFORMATION FOR SEQ ID NO: 3394:		
<u>.</u> 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(b) Toroboot. Timear	·	
30		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3394:		
	TGCTTACGCT CAGTGACATA ATCTAATGTG GCACGTAAAG CGCCACCATA	CCACC	55
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 3395:	•	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
	(with growing programmer growing and the vo		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3395:		
	AGTCACCATT TGTTGGTACA GGTTATGGAA CACGTTGCAG CACGTGATTC	TGGTGCGG	58
	(2) INFORMATION FOR SEQ ID NO: 3396:		
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3396:		
	CAAATGCATT TAAAACCAAT ATTGAGTTAC ATGAAAGCAC ATACGATGCA	AACGT	55
5	(2) INFORMATION FOR SEQ ID NO: 3397:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
		·	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3397:		
	TGTTGATGAG TCGTGTTTTA TCTCAAGATG TGTTACTCAA AAAGTTATAG	AAGA	54
	(2) INFORMATION FOR SEQ ID NO: 3398:		
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	: .	
25			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3398:		
	CTTCGTCAAG ATCAATCTCT TCAAGTAAAT CTTTAATACC TTCTGCACCC	ATTT	54
30	(2) INFORMATION FOR SEQ ID NO: 3399:		
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3399:	•	
	AATGAAAAGC TAGCTGTAGT TGCAAGAAAA ACTGGCTTAG CGATGGCAGT	TGGAT	55
	(2) INFORMATION FOR SEQ ID NO: 3400:		
.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
50			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3400:	•	

2539

, **5**5

	(2) INFORMATION FOR SEQ ID NO: 3401:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
10 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3401:	
	TAAAAATCGC GCACTTAAAC CGCTTATGAC AATCATTATT ACCGCAATAT GCTTG	55
15	(2) INFORMATION FOR SEQ ID NO: 3402:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3402:	
25	GGCACCTCCT TGGATTATTT TTCTTCTACT GTTACTAAGT GCTTAACTTT GTTG	54
	(2) INFORMATION FOR SEQ ID NO: 3403:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3403:	
	GATAAGTCTA ACAAGTGGCA CCCATAATCG ATTAAACTAC CGCCACCTTG CAACGTTT	58
40	(2) INFORMATION FOR SEQ ID NO: 3404:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3404:	
50		
	TCGTTTTCGT CCCCAAATTC TGCCAACTTA TTCATGAACT TATCTAGCGC TATTGTTCTT	60
	TGTCT	65

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) IOLOHOGI. IIIIGAI	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3405:	
	AAATTTCAGC ACCAATTGTT ATTGGACGAC ACCATTTAGA TGCTGGTTCA GTTGC	55
	(2) INFORMATION FOR SEQ ID NO: 3406:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3406:	
***	TCGATTTCAG CGGAACACAT GTAACGTTAG CACAAGCCAT GAACCAATTA GGTGGC	56
25	(2) INFORMATION FOR SEQ ID NO: 3407:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 <i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3407:	
	AATTGCTAAT GGTCAAGTAT GGACGTGATC ATTGTTGGTA CTACTTATTG CTGAAACTGT	60
	TAAAGATTAG AAGG	74
10	(2) INFORMATION FOR SEQ ID NO: 3408:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	12, 2010H001. 11H001	
	(M) CECUENCE DECCREPATION CEC TO NO 2400	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3408:	
	TGATTTCACA CTTGATAACG GATACTTCGA AGAGATACAT CAGCAGCGTT CAGCTCAGAT	60
	AGTGCTCA	68

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3409:	
	TATGATTAGA AAAAGGGGAA TTTTTATGGA GTATAAGAGT TACTATGATT CGCC	54
	(2) INFORMATION FOR SEQ ID NO: 3410:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3410:	
	TATCTTTCAT CATTGAAGAA GATCGCGATG ACTATACAAT CAATATCGAG TATA	54
25	(2) INFORMATION FOR SEQ ID NO: 3411:	
30 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠.
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3411:	
	TTGAAGTGCA CGAATCGAAT TATTGTAAGC AGTAATACTT GCCGGCTTCT TAC	53
	(2) INFORMATION FOR SEQ ID NO: 3412:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3412:	
	TAGCCGATGG AACCCCATAA CGGTTGCCCT ATAAAAGTAT TGTTTTTGTA TAGTGCTAAA	60
50	TCA	63
•	(2) INFORMATION FOR SEQ ID NO: 3413:	•

. 5	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3413:	
10	ACTACCATTG CTTGTTCCGG TTTCACAACT GGTTCAGTAT CATTTACAAC TGC	53
70	(2) INFORMATION FOR SEQ ID NO: 3414:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3414:	
	ATGCTGTTGT AAACGGTAAT ACAACATACC TGCCCAACCC GGTAACGCCA AAAAATGTCC	60
	TT	62
25	(2) INFORMATION FOR SEQ ID NO: 3415:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	<i>,</i>
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3415:	
	ACTTAGATCA ATCACATGAT GCCTCACGGA ATCCATTATT TGAAGGTCAT GTTAG	55
	(2) INFORMATION FOR SEQ ID NO: 3416:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3416:	
	TTAGTTCCAG CAATACCTGC TACAGTTGCT GCAGATGCTT CTTTCACCCA TGG	53
50	(2) INFORMATION FOR SEQ ID NO: 3417:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	,

	(C) STRANDEDNESS: double . (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3417:	
	TGATTTAGGT GCAAAAATTG TAGGTATCGC TGAGGCTTAC GGTGCATTAC ACGATCCAA	59
10	(2) INFORMATION FOR SEQ ID NO: 3418:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3418:	
20	CGTGGTCACC ATCACCAATT GCTCGATCTA ATTCAGTAAT TCAGATTCAT GTT	53
	(2) INFORMATION FOR SEQ ID NO: 3419:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	• • • • • • • • • • • • • • • • • • •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3419:	
	TGGACCTACT GCAATAACTG AACGTCCTGA ATAGTCAACA CGTTTACCAG TAAGT	55
35	(2) INFORMATION FOR SEQ ID NO: 3420:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3420:	
45	TGTCTCCGGT ACCGTTTGCA CCAGGAATAA AGATGAGCAC GGGTCCTTGT CCG	53
	(2) INFORMATION FOR SEQ ID NO: 3421:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3421:	
	AAATTAAGAA AATTCATTGC CAGATAATTT AGATAAATAA TTAAAACTTA GACCATTCAC	60
5	CCCAATCCCT GA	72
	(2) INFORMATION FOR SEQ ID NO: 3422:	
1 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3422:	
	CATATGTTAA ATGGACTCGC TAGATTTAAG TCGCAATAGT AGCGGCCGTT TCTT	54
20	(2) INFORMATION FOR SEQ ID NO: 3423:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3423:	
	CACGTTTCAA ACCTAAAAGA TGCTAAAAAT TTCTCTTAAT TCTTGTGCAA TA	52
	(2) INFORMATION FOR SEQ ID NO: 3424:	٠
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		,
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3424:	
	ATCGCCTAAC CAAGATGCAC CATCGGTGAT TTTATCGCCT GCCGCTTCAA CCAT	. 54
45	(2) INFORMATION FOR SEQ ID NO: 3425:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. *
	(D) TOLOHOGI. TIMEST	

	AATAGAAAAT GTACGTAGCG GTATGATGAG GATTTCGCAG ACTAGTTTAG GGTCAAGTG	59
	(2) INFORMATION FOR SEQ ID NO: 3426:	
<i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(2) 101020011 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3426:	
15	CCAACGCCAG ATCCAGAACC AAGTCCAGAC CCAGAACCGG AACCAAGCCC AG	52
	(2) INFORMATION FOR SEQ ID NO: 3427:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3427:	
	CCATATTAAT GGTTATGTTT ATGTGAATGC TTGCTTGCTG GACTTGTCTT TT	. 52
30	(2) INFORMATION FOR SEQ ID NO: 3428:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
3 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3428:	
40	TAAAACAGAG ATTGATACTG CAGAAGATAA CTGTATCTCT CCATCTACTG TA	52
	(2) INFORMATION FOR SEQ ID NO: 3429:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3429:	
	TGAAAATCCA CAAGTCGCAC GTACAGTGTT TGAAAAAGGT ATTATGGCGG CA	. 52

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3430:	
	ATAATTCTTC CAAATATATG AAAATGGATT TGTTCTTTTT TTATAAAAAT CTTATGCTTT	60
	TTAACTAATT GTAAGA	76
15	(2) INFORMATION FOR SEQ ID NO: 3431:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3431:	
25	CTGCGGGGGA TAACTGTATC TCTCCATCTA CTGGTAAGTC GTATTAGAAC TAAAGCGGCT	60
	(2) INFORMATION FOR SEQ ID NO: 3432:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3432:	
	GGCTTCAGGC TCATTGATAG GTAAAAGTTG CAAAGCCTGC AAAGCGATTG GG	52
40	(2) INFORMATION FOR SEQ ID NO: 3433:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3433:	
50	TCGCACGATA CGCCTCCGAA TGAAGAAGGT TTATTGTGCG ATTCTTTTAT TGTTAAATTT	60
	TAAATTTTT	6 <u>9</u>

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3434:	
10	GATCGCTATC CATTAGCTAA ATTTAAACGT TCAAACTCAG GTACATGTTA C	5
	(2) INFORMATION FOR SEQ ID NO: 3435:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3435:	
,	TATAGCTACT GCTGCAGCTG CGGCCATTGC AGATGCTGAA CCAACTTCAG C	.51
25	(2) INFORMATION FOR SEQ ID NO: 3436:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3436:	
35	ATTAAAGCCA ACATTAATTT ATCCACTATT AACAATAACG GCTACAGGCT TATTAATGAT	6(
		7(
٠	TTATACCTTT	,,
40	(2) INFORMATION FOR SEQ ID NO: 3437:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
45 [*]	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3437:	
50	TTTGTTTGTT GATTCTTCTC CACCTGTTTC AGGTAGTTCA GATTTCTTAG A	5
	(2) INFORMATION FOR SEQ ID NO: 3438:	

5	(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3438:	
10	GTGAATTCCG TAATTACATT TTAGGCTTGA TTTTCTATCG CTTCTTATCT G	51
	(2) INFORMATION FOR SEQ ID NO: 3439:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3439:	
25	TTAAGACAGG TTCCTTATGG GACTCTAACA ACGTATGGTG CTATTGCCAA A (2) INFORMATION FOR SEQ ID NO: 3440:	51
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	ra, Ara
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3440:	•
35	CACTAGAAGA AACGGATTCA TCAGCTATTG GTATCGATTA CCATACTGCT GTGGA	55
	(2) INFORMATION FOR SEQ ID NO: 3441:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3441:	
	CTTCTGGCAA TAGACCGCGA GTTACTGGGG GCAAAACCAG TGTGTAAAAC CGGAACTACT	60
50	ATGAGGGGCA TGAAAGT	77
	(2) INFORMATION FOR SEQ ID NO: 3442:	
<i></i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

_	·	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3442:	
	GTTCGGTTGT GACAGTCAGT GGACGCGTTA CCAAATGGGC GGGAATTAAA GCAAA	55
	(2) INFORMATION FOR SEQ ID NO: 3443:	
10		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3443:	
00	(XI) DEGETTED DESCRIPTION. DEG ID NO. 3413.	
20	ATGAACTITG GGATAAAGGT GATGCCCAAA CTTTCCGTAA CTCATGATGA T	51
	(2) INFORMATION FOR SEQ ID NO: 3444:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
25	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3444:	
	CAACGCAGCA AAGCGGAGTG GCCCTTTACC TTCACAGAAT AATGGTCTAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 3445:	
00		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3445:	
45		
	ACCGAGCAGC GCACTAAACC TGCAGTACCT TTATCGCTTC TAGATAATCC	50
	(2) INFORMATION FOR SEQ ID NO: 3446:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

55 '

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3446:	
5	CCAATGCAAC GATCCAGTTA TTGTGTTGGC GCAATTGATT AATAGTATTC	50
5	(2) INFORMATION FOR SEQ ID NO: 3447:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3447:	
•	GCGCATCATA TCCCATTGCA CCGATAAGAT CCTTCTTACC TTCTACAAGT	50
	(2) INFORMATION FOR SEQ ID NO: 3448:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3448:	•
30	GTTCTTACTT CTTTATCGTG GCTCCAACGT GCTCTGTACA TTTTTTCCCA TCTCTCTACT	60
	(2) INFORMATION FOR SEQ ID NO: 3449:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
3 5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3449:	
	CAACACCACC GACACCAGAA GTACCAAGCG AGCCGGAAAC ACCAACACCG	50
•	(2) INFORMATION FOR SEQ ID NO: 3450:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3450:	

	TTATCACGGT ATATGAGGGG ATTTGAGG	88
	(2) INFORMATION FOR SEQ ID NO: 3451:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3451:	
15	TGCAAAACGT TATGAAGTAC AAGTTGATGG AAGCAACAAA GTAAGTGCGn	50
	(2) INFORMATION FOR SEQ ID NO: 3452:	
	(i) SEQUENCE CHARACTERISTICS: '(A) LENGTH: 64 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3452:	
		60
	CAGTTAAGTC ACCAGCTATT GCGTTTGGTG ATCTTAAGCA GGCGTGGATT ATCAAGTTTG	
30	GGTA	64
	(2) INFORMATION FOR SEQ ID NO: 3453:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs	
35	(B) TYPE: nucleic acid	
33	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3453:	
	TCGTAAACAA TATACTATCT CAACATTTAT TCATCCAATG GAGATAACGT ATTGCGCGGT	60
	TTAACAGGTA ATTTAAACCA AATACGGTAG TAATAATTAA TAGATAGCAA ATCAAGTATA	120
45	AAGAATAAGT A	131
	(2) INFORMATION FOR SEQ ID NO: 3454:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(D) 1020H031. IIIIGAI	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3454:	
	TTAAAAATGC AGTTATGGCC TCTAAAATCG TATTAAGCAT ATTAGCGCCC	50
5	(2) INFORMATION FOR SEQ ID NO: 3455:	
*	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3455:	
	TGCTACATGG CGTTACGGTC AAGATCGTCA ACGATTGATG GGTACAATTG A	. 51
	(2) INFORMATION FOR SEQ ID NO: 3456:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3456:	
30	ACAAACTGCC AACGATTGGT CGTGTGAATC ATCCAGTGGA AGAAGCGCAn	50
30	(2) INFORMATION FOR SEQ ID NO: 3457:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3457:	
	AATCACGTGA GAAGGATACA GCTATTAGTA TCGGTATCAT CGCATTGATT	50
	(2) INFORMATION FOR SEQ ID NO: 3458:	
45		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3458:	
<i>55</i>		

5 10 GGGG	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3459: CCAACAA ATCGGAAACT GCCAATTGGA CGGTTGCCGT CATCAAACCC INFORMATION FOR SEQ ID NO: 3460:	50
GGGG	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3459:	50
GGGG	CCAACAA ATCGGAAACT GCCAATTGGA CGGTTGCCGT CATCAAACCC	50
(2)	CCAACAA ATCGGAAACT GCCAATTGGA CGGTTGCCGT CATCAAACCC	50
(2)		50
,, (2)	INFORMATION FOR SEQ ID NO: 3460:	
10 1		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3460:	
25	THE COOK ACCOUNTS OF THE CONTROL OF THE CONTROL OF THE CONTROL ATTROCTOR ACCOUNTS	60
TGC	TTCCGCT AGAGGATCCG GTATTGCTAG TCAATTACTA CACCATTTAA ATTGTGGAAG	80
CAA	AAGCT	68
(2)	INFORMATION FOR SEQ ID NO: 3461:	
30	INFORMATION FOR SEQ ID NO: 5461:	
7.	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3461:	
40 TGGT	CCTTCGC AATCCACGGA TATACCTTAG TACCAGGTAA TTGACCACCT T	51
(2)	INFORMATION FOR SEQ ID NO: 3462:	• •
	(i) SEQUENCE CHARACTERISTICS:	
45 ·	(A) LENGTH: 56 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(A COMPAND DESCRIPTION CEO TO NO. 2462	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3462:	
AAGO	TATTAA TGTAATTTAT CAATTGATTG TGCAACGGAC ATCATCTACA AGACCG	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3463:	
	ATACCAAATG TGAGAAACTG GAGCAGCAAn TTCAATGTGA CCCATTCTTT	50
	(2) INFORMATION FOR SEQ ID NO: 3464:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3464:	
25	TCTTTACGGC GTGGTTCTAA TCGCATCTTT TTCAATCTAA GTGCGTTTnT	50
20	(2) INFORMATION FOR SEQ ID NO: 3465:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3465:	
	AAAGAAGATT GGAACGIGIA TIGACGACIG CACCCAGGIA IGGGIGITCG CCCGACA	57
40	(2) INFORMATION FOR SEQ ID NO: 3466: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
45	(b) Toronogi. Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3466:	
50	ACATCCGAAA GATGACTTGT TTAAAAAAGC AGAGCATGAT TTGCTTACTA TGATTACACG	60
	CGG	63
5 5	(2) INFORMATION FOR SEQ ID NO: 3467:	

5	(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
3		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3467:	
10	TACCGATGAT TTCCGAGACA TAGACCGGCC TGTCTGGGGG TCAACTGGAA CTTGGTC	57
	(2) INFORMATION FOR SEQ ID NO: 3468:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3468:	
	TGTTCCTAAT ATTTATGTTG TAAAAATGTA CAATCTAATT AAAGCAATAG TCTTGGGCA	59
25	(2) INFORMATION FOR SEQ ID NO: 3469:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3469:	
	TCCATGATCG TTCAACATTT AAATACACAA CTTAATAAGT ATCGTGTACA AGTTATG	57
	(2) INFORMATION FOR SEQ ID NO: 3470:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠
45	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3470:	
	CCCTGTTCAG GCTATCCTCT AAAGTGACGA TATAGAATAG CGATTAATAT CGCGATAGT	59
50	(2) INFORMATION FOR SEQ ID NO: 3471:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3471:	
5	TACGCCATCA NCGCCAGCTA ATCCGATTGC GACACCTAAT GCGAAATCAT	50
	(2) INFORMATION FOR SEQ ID NO: 3472:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3472:	
	AACGTCATCA AATGGAAGTA CGTGACGTTC ACTACTCTCA CTATGGCCGT ATGT	54
20	(2) INFORMATION FOR SEQ ID NO: 3473:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3473:	
<i>30</i>	TAATAGGCAT TCCCATTAGG TGCGTCGACA ACTGCAACGC AAGCATTTGA AACAGA	56
	(2) INFORMATION FOR SEQ ID NO: 3474:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3474:	
	TTTTAAGAAT GTCGCGTTAT CTGCGCCCAT TGGATTGACA TACTTCATAC GTATA	55
45	(2) INFORMATION FOR SEQ ID NO: 3475:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCCTTTAGGT AAAATGGGCA GAAATGCTAA TCATTTTGGC GGCGAAATGA AAAA	54
	(2) INFORMATION FOR SEQ ID NO: 3476:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
, ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3476:	
15	AAAnCATTCG CAATCGACCA TAATTTTTTA TGTAATTCAG CTTGTTGCTG	50
	(2) INFORMATION FOR SEQ ID NO: 3477:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.25	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3477:	
	GGANGACCAT TAATCGATAT CGGTACACAC GCTTTAGATT TAACGTTATG	50
<i>3</i> 0	(2) INFORMATION FOR SEQ ID NO: 3478:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
<i>35</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3478:	
40	TGCCTCCTTA CGCCATGATG CTTATTCAAA GTAAATTGCT TTGCCGGACT TTGCAGACTG	60
	(2) INFORMATION FOR SEQ ID NO: 3479:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3479:	
	GGTCTTTCAG CTGCTAACGA GTTCCTGTTA CTGTTCATGT CTATCACTTT GCGTTCCCTC	60
		•

	(2) INFORMATION FOR SEQ ID NO: 3480:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
J	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
10		
,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3480:	
	CAAGTATCAT ATGGACGGCT CGCCCAACAC AAAACAAGnC CAAGCAAAAC	. 5
: 15	(2) INFORMATION FOR SEQ ID NO: 3481:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3481:	
25	ATTAAACAAC ATAGCTCGGC TAATCCTTTA AAGCTTTTGA GTTTTTCTGT TGTAGAACAA	6
•	GA	6:
30	(2) INFORMATION FOR SEQ ID NO: 3482:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
	(E) TIPE: Nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3482:	
40	TGTGGCTAGC TGTTTCTTTT TTAGGTGCTG TGTAGGAGAT GAACTGATCG T	5
	(2) INFORMATION FOR SEQ ID NO: 3483:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
50	· (wi) CENTENCE DESCRIPTION, SEC ID NO. 2462.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3483:	
	GCAGTTTATA AGTAGAGAGA CAGCTGATCA TGAGATAAAA ATGGGTAAAT ATTT	5

	(1) SEQUENCE CHARACIERISTICS:	
	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3484:	
10		
	TTATCTATCA CAGTACGAAT CCCCCAGAGT ACCGATTGTG ACAGCAACTT CTGCG	55
	(2) INFORMATION FOR SEQ ID NO: 3485:	
	(2) IN ORDER TON DAY 15 NO. 5105.	
	(i) SEOUENCE CHARACTERISTICS:	
15	1-7 3 1 1 1 1 1 1 -	
	(A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
00		
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3485:	
	ATCTCTGGTT CGATTCCCGT CGAGACCGGC ATCATTACAT GTTTATTATG GG	52
25		
	(2) INFORMATION FOR SEQ ID NO: 3486:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) lorobodi. Illiear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3486:	
35	(XI) BEQUENCE DESCRIPTION. SEQ 15 No. 3400.	
	TGTGTCACGA TAATAGGCGT AATATCACTC TTTGGCATGA TTGCCGGATG	50
	IGIGICACGA TARIAGGCGI ARIATCACTC TITGGCATGA TIGCCGGATG	
	(2) INFORMATION FOR SEC ID NO. 2497.	
	(2) INFORMATION FOR SEQ ID NO: 3487:	
40	(i) CROWNING CUADACTERICS	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 67 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3487:	
		,
	TATTTTTGAT CACACTCAAC GCACAAACGA ATGGCCTTTA CCTTCACAGA ATAATGGTCT	. 60
50		
	AATGTAA	67
	(2) INFORMATION FOR SEQ ID NO: 3488:	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3488:	
10	TAGGTGGTCA ATTACCTGGT ACTAGGTATA TCCGTGGATT GCGAGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 3489:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3489:	
•	CAATTGTACT TCATAACGTT TTGCATTTCG CCACCTTCAC CACTATATTT TCCCATGGTC	. 60
25	(2) INFORMATION FOR SEQ ID NO: 3490:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3490:	
	CTAAACTGAT TGTTTTACGT AACGTTTCAT CGGCTTCTTT CGCTTCTATC	50
	(2) INFORMATION FOR SEQ ID NO: 3491:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3491:	
50	TCGATTTACC TTTCATCATT GAAGAAGATC GCCATGACTA TACAATCAAT AT	52
50	(2) INFORMATION FOR SEQ ID NO: 3492:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3492:	
_	AACCTTTTCA CAAATATCAT ATAACTCTTC TAATGGGATA ATCTCTTCAT GT	52
5	(2) INFORMATION FOR SEQ ID NO: 3493:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:	
	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:	
	GGTTTTAAAC CGTCACGAAC ATCTGGCAAT GCACGAGCAA CGTACATACG TATCTAAAGT	60
	TACGCTT	67
20	(2) INFORMATION FOR SEQ ID NO: 3494:	•
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) loroboot. linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3494:	
	TACGTTATGT TATGTAAATA ACAGTTAATT ATACCGGTGG TCTGGGTCGA	50
	(2) INFORMATION FOR SEQ ID NO: 3495:	
<i>35</i> .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) Torodoor. Timour	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3495:	
45	CGCTTGTTGT TGTACTTTGG CAGTTCGCGT TGTGGATTGT GCCAGCGCTT TTAAACCGTA	60
	(2) INFORMATION FOR SEQ ID NO: 3496:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3496:	
•	GGCACCGGCT TCTCTATTGC TTCTTTAGCA TATCTGCAGC TCTCTCAAGG GACATG	56
<i>5</i>	(2) INFORMATION FOR SEQ ID NO: 3497:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3497:	
	CACCTTTAGG ATACGCGTCT AACCACTGTG TCGCGTCTCT ATATATCGCT AAACACGTA	59
	(2) INFORMATION FOR SEQ ID NO: 3498:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) TOPOLOGI: Timear	
-	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3498:	
	AAGTAATATO TGAATGOGTA TATTGTOTAA TTTCAAATTO TACAGACATO GACGT	. 55
30	(2) INFORMATION FOR SEO ID NO: 3499:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3499:	
	Antgracacg tecatettea catgacaaca acgatatttt gaccateaca	50
	(2) INFORMATION FOR SEQ ID NO: 3500:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3500:	
55		

	(2) INFORMATION FOR SEQ ID NO: 3501:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3501:	
	TGTGTGCCTT TAAGTTGTTG ATGACACGCA TTCACGACAA CAGACATGAC AC	52
15	(2) INFORMATION FOR SEQ ID NO: 3502:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3502:	
	CTGGCTTCAA TGGCAACTTC TGTACCTGGT ACCAATGGGC GATGACCGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3503:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3503:	•
	TGTCCGACTT GGCGGnATCG TAATTTAGCG CNTGTAATTC TAAAGGGACC	50
40	(2) INFORMATION FOR SEQ ID NO: 3504:	
· 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠,٠		
50 .	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3504:	
	AACCTTCATA TTGCTTCTAA TAAGAAACCG AGCAGCGCAC CAAACCTGGC AGTACCTTTA	60
	TCGC	64

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3505;	•
	TATTGATGTT GAAAACTGTT ATGTCCTTTC GATGGGCCAA CACNAANATA	50
	(2) INFORMATION FOR SEQ ID NO: 3506:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(b) TOPOLOGI: Timear	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3506:	
	GAATATGGTA TCAATGGTAT GCACTAAGGC TTTATGAAAT TCATTTAAAA T	51
	(2) INFORMATION FOR SEQ ID NO: 3507:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3507:	
	CGGTTTTAAT CGGTAAATTA AATATGGATG AGTTTGCAAT GGTGTTCACA GAACATCTAT	60
	TTAA	64
40	(2) INFORMATION FOR SEQ ID NO: 3508:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3508:	
	CAAGGCCTTG TTTTTAAAGC AGCTACAGTT GGCAATATGT CCACTCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 3509:	
<i>55</i>		

	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		_
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3509:	•
10	CAGATGCAAA TTGACATGGT CATCAACATC nGTnCATTAA AAGATGGACG	50
,,,	(2) INFORMATION FOR SEQ ID NO: 3510:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3510:	
	ACAAGAGGGT CACCCAGCTC GGTCGATTCC CACCGCCACA TCATGATATT TATTCATAGA	60
	GTTTACGCAC TGTACATGAT TGAATGCGAT AAAG	94
25	(2) INFORMATION FOR SEQ ID NO: 3511:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3511:	
	ACTCAACAAT GGATATTCTT ACACTGAAAA ATGGGTAATG GTGCAAACAT AGTA	54
	(2) INFORMATION FOR SEQ ID NO: 3512:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3512:	
50	CCGGATGCAC ATTTGATGAC TGAAGTCCGC GATAAAGGGA CAANAGTCAN	50
	(2) INFORMATION FOR SEQ ID NO: 3513:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
55	(E) Dinoin. Do mado Passo	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3513:	
•	GCATTAAATT GAAACAATCG GATTTACAAT TTTCTCTTAA TGCTGTCGTC TACACAGC	58
10	(2) INFORMATION FOR SEQ ID NO: 3514:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3514:	•
20	GTGTTCGTGT TCATGCAAGG TGAATGCGAG TGATCTGTTG GTATGGGCTT TATGCATGGC	60
	AATCTG	66
25	(2) INFORMATION FOR SEQ ID NO: 3515:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	-
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3515:	
<i>33</i>	ATGCCACTGA TAATGCnnCT GAACTTATTG ATGACTTCTC ATTAGACTAT	50
	(2) INFORMATION FOR SEQ ID NO: 3516: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3516:	
	CGGCGACAAA GAGTAAACAC AGCGGAGGGA CAAAGCCCGC GACTAGCAAC	50
50	(2) INFORMATION FOR SEQ ID NO: 3517:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(2) INFORMATION FOR SEQ ID NO: 3518: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518: GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC (2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3517:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518: GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC (2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid	5	ATGCCTATGT AGCACCGAGT ACCGATACCG AACACTTAGC TACGCCAGTT C	51
(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518: GAGGATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC (2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3518:	
GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC (2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518: GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC (2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid			
(2) INFORMATION FOR SEQ ID NO: 3519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (iii) SEQUENCE CHARACTERISTICS: (iiiii) SEQUENCE CHARACTERISTICS: (iiiiii) TYPE: nucleic acid		GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC	50
(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519: GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT 66 ATCG 67 (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3519:	
GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid			
ATCG (2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519:	
(2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT	6 0
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		ATCG	64
(A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520: TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3520:	
TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid			
ATCGGTTCCG ATC (2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520:	
(2) INFORMATION FOR SEQ ID NO: 3521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		ATCGGTTCCG ATC	73
(A) LENGTH: 75 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3521:	
		(A) LENGTH: 75 base pairs (B) TYPE: nucleic acid	

GTGATTTCAT GGATG (2) INFORMATION FOR SEQ ID NO: 3522: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 3522: TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3521:	
(2) INFORMATION FOR SEQ ID NO: 3522: (a) LENGTH: 57. base pairs (b) TYPE: nucleic acid (c) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522: TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTOGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	5	TCAAATTGGC AATTGGTACG AATGTCGACT GTACTAACAT CATTAGCTCA TGATTGCCAG	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522: TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 40 (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 45 ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 Dase pairs (B) TYPE: nucleic acid		GTGATTTCAT GGATG	75
(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522: TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 45 ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3522:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522: TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 46 ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	10	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA (2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS:	15		
(2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522:	
(2) INFORMATION FOR SEQ ID NO: 3523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA	57
(A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: 45 ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	20	(2) INFORMATION FOR SEQ ID NO: 3523:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTC GTCTTGGTTT CTTTGTTTT TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		(A) LENGTH: 72 base pairs	
TGGTGGAGGT TTTGTTTTT CCGTGTCGGT TTTTGTTTT TGTGTTTT TGTGTTTTT TGTGTTCTCT TT 35 (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	25	(C) STRANDEDNESS: double	
TGTGTTCTCT TT (2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	<i>30</i>		
(2) INFORMATION FOR SEQ ID NO: 3524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		TGGTGGAGGT TTTGTTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		TGTGTTCTCT TT	72
(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524: ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	35	(2) INFORMATION FOR SEQ ID NO: 3524:	٠
ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	40	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid			
ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C (2) INFORMATION FOR SEQ ID NO: 3525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	-	ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C	51
(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 3525:	
	50	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3525:	
	TAGACCGTCG TGGATAGTTT TGGGTACGGT AACCAATTTA TTTTGAAGAG ACCATCCTC	59
5	(2) INFORMATION FOR SEQ ID NO: 3526:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3526:	
	TAATAACGTT GCCCTCCCAT GTATATCCTA CCAACATGAC ATCTTGTACA	50
	(2) INFORMATION FOR SEQ ID NO: 3527:	
<i>20</i> .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3527:	
30	TTCCCAACGA GCAGTCGCAT GCGGTACTGC CACGGCATTT TGATGCAGGC CT	52
	(2) INFORMATION FOR SEQ ID NO: 3528:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3528:	
	AAAGAAANGA TNGNNNGNNN GNANAAANNN NNCCATNNNN NTAAAAAAAA	50
45	(2) INFORMATION FOR SEQ ID NO: 3529:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	
50	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(D) 1050F0G1: 11Hegr	

•	CATTAGCCTC ATCCCCTTCG TTTAGACTCG CTATAGATGC ACTAAATGGC GATATATTTT	60
	TC	62
5	(2) INFORMATION FOR SEQ ID NO: 3530:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3530:	
	CACTACCACA AAAATTATAG GTGTTGACCT TCAGGnGCAA GTAGTATGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3531:	
.20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3531:	
30	GAATGCAAAA TCCATTTGTA AGGANATCGA ATGGTTTAGT ANCTCGTGCA	50
	(2) INFORMATION FOR SEQ ID NO: 3532:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3532:	
	GGTAGANCHC TGTTTAGTAC TAGGGGCCCC TCTCGGGTTA CCAATTCAGA	50
	(2) INFORMATION FOR SEQ ID NO: 3533:	30
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3533:	

	(2) INFORMATION FOR SEQ ID NO: 3534:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3534:	
	CGTCAACGAT GTAAAGTAAA GCCTTGTCCA GTTTAATTTA CGAGTGGCGT AA	52
15	(2) INFORMATION FOR SEQ ID NO: 3535:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3535:	
	TTAATCCAGA AGTACCGGTG GATTTAGTTA TTGACCACTC AGTTCAAGTG GATAGCTATG	60
	CAAATCCAGA AGCTCTTGAA CGTAATATGA AATTAGAATT TGAACGTAAC TATGAACGTT	120
30	ATCAGTTTTT AAATTGGGCA ACGAAAGCAT TTGATAATTA CAATGCAGTT CCTCCTGCAA	180
	CTGGAATAGT TCACCAAGTT AACTTAGAAT ATTTAGCAAG TGTTGTACAT GTTCGTGATG	.240
	TAGATGGTGA AAAAACTGCA TTTCCAGATA CATTAGTTGG TACTGATTCA CATACAACAA	300
35	TGATAAATGG TATTGGCGTA CTAGGATGGG GTGTTGGTGG TATTGAAGCT GAAGCTGGAA	360
	TGCTTGGACA ACCTTCTTAT TTCCCAATTC CAGAGGTTAT	400
40	(2) INFORMATION FOR SEQ ID NO: 3536:	٠
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1118 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3536:	
50	CGTATAGAGT GTCCTACAAC CCCAACAAGC AAGCTTGTTG GTTTGGGCTC TTCCCGTTTC	60
	GCTCGCCGCT ACTAAGGGAA TCGAATTTTC TTTCTCTTCC TCCGGGTACT AAGATGTTTC	120
•	AGTTCTCCGG GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATAAC	180

	GCATATCGTC	GTTAGTAACG	TCCTTCATCG	GCTTCTAGTG	CCAAGGCATC	CACCGTGCGC	300
	CCTTAATAAC	TTAATCTATG	TTTCCACCAT	TTTTATAAGT	CAAACGCTCA	CATACGGCTT	360
5	CGTTTTCATT	ATTTTAAATG	CTCATTTACA	TAAGTAAACT	CTGCTTTAAA	ATAATTTAAC	420
	TCATTGTCTG	CTAAACGTTT	TCTTTTATAA	AAAGATTTAA	ACGCGTTATT	AATCTTGTGA	480
10	GTGTTCTTTC	GAACACTAGC	GATTATTTCT	TATGAATTCA	AGCTTATTTA	AAACTCTTTA	540
	TTCACTCGGT	TTTGCTTGGT	AAAATCTATA	TTTTACTTAC	TTATCTAGTT	TTCAATGTAC	600
	AATTTCTTTT	TAGTCAAGCG	CTCGCATACT	GCTTTATTTT	СААААААТСА	AATGCTCATT	660
15	TACAAAAGTA	AACTCCGCTT	TAATTTTTCT	TAATGCATTG	TCTAACAACC	GCTTTCTTTA	720
	AAAAGAATAG	ATTGTCAAGC	GCTCGCATAA	GCAATATCAC	TTTAACCAAA	AAATATTTGA	780
	ATGTTAAATA	AACATTCAAA	ACTGAATACA	ATATGTCACG	TTATTCCGCA	TCTTCTGAAG	840
20	AAGATGTTCC	GAATATATCC	TTAGAAAGGA	GGTGATCCAG	CCGCACCTTC	CGATACGGCT	900
	ACCTTGTTAC	GACTTCACCC	CAATCATTTG	TCCCACCTTC	GACGGCTAGC	TCCTAAAAGG	960
	TTACTCCACC	GGCTTCGGGT	GTTACAAACT	CTCGTGGTGT	GACGGGCGGT	GTGTACAAGA	1020
25	CCCGGGaACG	TATTCACCGT	AGCATGCTGA	TCTACGATTA	CTAGCGtTCC	AGCTTCATGT	. 1080
	AGTCGAGTGC	AGACTACCAT	CCGGACTGnG	GACCAACT			1118
30	(2) INFORMA	TION FOR SE	Q ID NO: 35	37:			

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3537:

GGGGATCCCC	AGCCAGAAGA	TTTATTCAGT	GCGATGATTC	GTGAAATTGA	AACGCAAGAT	60
TTCGATATCG	AACACCTGGC	GACGGCAATT	CGTAAmGTTG	AAACATCAAC	ATTAGGTGAA	120
GAAAGTGAAA	ATGACTTTAT	CGGTCTGTTC	AGCGATATGG	ATTTGAGTTC	AACGCGACTA	180
GGTAACAATG	TCAAAGAACG	TACTGCTTTA	ATCTCTAAAG	TCATGGTTAA	TCTTGACGAC	240
TTACCATTCG	TTCACAGTGA	CATGGAAATT	GATATGTTAG	GTGATGCATA	TGAATTCCTA	300
ATTGGGCGCT	TTGnGCGACA	CGGGTAAAAA	AAGCAGGCGA	GTTCTATACA	CCACAACAAG	360
TATCTAAGAT	ACTGGCGAnG	ATTGTCACAG	ACGGTAAAGA	TAAATTACGT	CACGTGTATG	420
ACCC						424

55

45

50

35 ·

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3538:	
	ATCTCATATG TTAAAAGGTA AACAAGGTCG TTTCCGTCAA AACTTACTTG GTAAACGTGT	60
	TGACTATTCA GGACGTTCAG TTATTGCAGT AGGTCCAAGC TTGAAAATGT ACCAATGTGG	120
15	TTTACCAAAA GAAATGGCAC TTGAACTATT TAAACCATTC GTAATGAAAG AATTAGTTCA	180
	ACGTGAAATT GCAACTAACA TTAAAAATGC GAAGAGTAAA ATCGAACGTA TGGATGATGA	240
	AGTTTGGGAC GTATTGGAAG AAGTAATTAG AGAACATCCT GTATTACTTA ACCGTGCACC	300
20	AACACTTCAT AGACTTGGTA TTCAAGCATT TGAACCAACT TTAGTTGAAA GGTCGTGCGA	360
	TTCGTCTACA TCCACTTGTA ACAACAGCTT ATAACGCTGA	400
25	(2) INFORMATION FOR SEQ ID NO: 3539:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1171 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3539:	
35	AATAAGTAAG TTATTTTGTC TGGTGACTAT AGCAAGGAGG TCACACCTGT TCCCATGCCG	60
	AACACAGAAG TTAAGCTCCT TAGCGTCGAT GGTAGTCGAA CTTACGTTCC GCTAGAGTAG	120
	AACGTTGCCA GGCAAATGAC AAATCGGAGA ATTAGCTCAG CTGGGAGAGC ATCTGCCTTA	180
40	CAAGCAGAGG GTCGGCGGTT CGAACCCGTC ATTCTCCACC ATTTATTCTT AGATATAGCC	240
	GGCCTAGCTC AATTGGTAGA GCAACTGACT TGTAATCAGT AGGTTGGGGG TTCAAGTCCT	300
	CTGGCCGGCA CCATCTTTTG AGCCATTAGC TCAGCTGGTA GAGCATCTGA CTTTTAATCA	360
45	GAGGGTCAGA GGTTCGAATC CTCTATGGCT CATTACGATT TAATTTTTAT ATTTAGCAAA	420
	ATAATGCAGA AGTAGTTCAG CGGTAGAATA CAACCTTGCC AAGGTTGGGG TCGCGGGTTC	480
50	GAATCCCGTC TTCTGCTCCA TTATTTTGCC GGGGTGGCGG AACTGGCAGA CGCACAGGAC	540
	TTAAAATCCT GCGGTGAGAG ATCACCGTAC CGGTTCGATT CCGGTCCTCG GCACCATTTT	600
	AGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA TCAAGAGGTT ATGGGTTCGA	660
EE	•	

GAGCACTTGG	TTTGGGACCA	AGGGGTCGCA	GGTTCGAATC	CTGTCTTCCC	GATTACTTCT	780
TAAATTCCAT	TTTATGGGGG	CTTAGCTCAG	CTGGGAGAGC	GCCTGCTTTG	CACGCAGGAG	840
GTCAGCGGTT	CGATCCCGCT	AGTCTCCACC	ATTTATTTTT	TACACGATGA	ACATTGAAAA	. 900
CTGAATGACA	ATATGTCAAC	GTTAATTCCA	AAAAACGTAA	CTATAAGTTA	CAAACATTAT	960
TTAGTATTTA	TGAGCTAATC	AAACATCATA	ATTTTTATGG	AGAGTTTGAT	CCTGGCTCAG	1020
GATGAACGCT	GGCGGCGTGC	CTAATACATG	CAAGTCGAGC	GAACGGACGA	GAAGCTTGCT	1080
TCTCTGaTGT	TAGCGGCGGA	CGGGTGAGTA	ACACGTGGgA	TAACCTACCT	ATAAGACTGG	1140
Gataacttcg	GG&AACCGGA	GCTAATACCG	G ·			1171
(2) INFORMA	ATION FOR SE	EQ ID NO: 35	540:	,		•

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 601 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

25

30

35

40

45

50

· 5

10

15

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3540:

CTCGGCAGTG	TGAAATCAAC	GACTCGAAGA	CACAATGTCT	TCTCCCCATC	ACAGCTCAGC	. 60
CTTAACGAGT	ACCGGATTTG	CCTAATACTC	AGCCTTACTG	CTTAGACGTG	CAATCCAATC	120
GCACGCTTCG	CCTATCCTAC	TGCGTCCCCC	CATCGATTAA	AACGATTATA	GGTGGTACAG	180
GAATATCAAC	CTGTTATCCA	TCGCCTACGC	CTGTCGGCCT	CAGCTTAGGA	CCCGACTAAC	240
CCAGAGCGGA	CGAGCCTTCC	TCTGGAAACC	TTAGTCAATC	GGTGGACGGG	ATTCTCACCC	300
GTCTTTCGCT	ACTCACACCG	GCATTETCAC	tTCTAAGCGC	TCCACATGTC	CTTACGATCA	360
TGCTTCAACG	CCCTTAGAAC	GCTCTCCTAC	CATTGTCCAA	AGGCATWCTC	ACAGCTTCGG	420
Taatatgttt	AGCCCCGGTA	CATTTTCGGC	GCAGTGTCAC	TCGACTAGTG	AGCTATTACG	480
CACTCTTTAA	ATGATGGCTG	CTTCTnAGCC	AACATCCTAG	GTTGGTCTGG	GGCACGCnAC	540
ATCCTTTTCC	ACTTAACATA	TATTTTGGGG	ACCTTGGCTG	GTGGGTCTGG	GGCTGnTTCC	600
C			•			601

(2) INFORMATION FOR SEQ ID NO: 3541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3541:

· 5	GCnAGGACCT	TnCCAAATTT	GAAATCCTTT	GACCACNTTT	GGGGTAGAGC	CCTTTCCCnC	. 60
J	GGGGACAAAG	TGACCAGGTG	GTGCATGGTT	GTCGTCAGCT	CGTGTCGTGA	GATGTTGGGT	120
	TAAGTCCCCG	CAACGAGCGC	AACCCTTAAG	CTTAGTTGCC	ATCATTAAGT	TGGGCACTCT	180
10	AAGTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	ACGTCAAATC	ATCATGCCCC	240
	TTATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	AAGGGCAGCG	AAACCGTGAG	300
	nTCAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	AGTCTGCAAC	TCGACTACAT	360
15	GAAGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	GTGAATACGT	TCCCGGGTCT	420
	TGTACACACC	GCCCGTCACA	CCACGAGAGT	TTGTAACACC	CGAAGCCGGT	GGAGTAACCT	480
	TTTAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTGGGG	TGAAGTCGTA	ACAAGGTAGC	540
20	CGTATCGGAA	GGTGCGGCTG	GATCACCTCC	TTTCTAAGGA	TATATTCGGA	ACATCTTCTT	600
	CAGAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	GAATGTTTGT	TCATTCAAAT	660
25	TAATGGGCCT	ATAGCTCAGC	TGGTTAGAGC	GCACGCCTGA	TAAGCGTGAG	GTCGGTGGTT	720
	CGAGTCCACT	TAGGCCCACC	ATTAATTTAA	TACCTATTTG	GGGGCTTAGC	TCAGCTGGGA	780
•	GAGCGCCTGC	TTTGCACGCA	GGAGGTCAGC	GGTTCGATCC	CGCTAGTCTC	CACCATTATT	840
30	TGTACATTGA	AAACTAGATA	AGTAAGTAAA	ATATAGATTT	TACCAAGCAA	AACCGAGTGA	900
	ATAAAGAGTT	TTAAATAAGC	TTGAATTCAT	AAGAAATAAT	CGCTAGTGTT	CGAAAGAACA	960
	CTCACAAGAT	TAATAACGCG	TTTAAATCTT	TTTATAAAAG	AACGTAACTT	CATGTTAACG	1020
35	TTTGACTTAT	AAAAATGGTG	GAAACATAGA	TTAAGTTATT	AAGGGCGCAC	GGTGGATGCC	1080
·	TTGGCACTAG	AAGCCGATGA	AGGACGTTAC	TAACGACGAT	ATGCTTTGGG	GAGCTGTAAG	1140
	TAAGCTTTGA	TCCAGAGATT	TCCGAATGGG	GAAACCCAGC	ATGAGTTATG	TCATGTTATC	1200
40	GATATGTGAA	TACATAGCAT	ATCAGAAGGC	ACACCCGGAG	AACTGAAACA	TCTTAGTACC	1260
	CGGAGGAAGA	GAAAGAAAAT	TCGATTCCCT	TAGTAGCGGC	GAGCGAAATG	G	1311

(2) INFORMATION FOR SEQ ID NO: 3542:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3542:

55

45

	CGCTAGAGTA GAACGTTGCC AGGCAAATGA CAAATCGGAG AATTAGCTCA GCTGGGAGAG	120
	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	180
	TAGATATAGC CGGCCTAGCT CAATTGGTAG AGCAACTGAC TTGTAATCAG TAGGTTGGGG	240
	GTTCAAGTCC TCTGGCCGGC ACCATCTTTT GAGCCATTAG CTCAGCTGGT AGAGCATCTG	300
,	ACTITIANTE AGAGGGTEAG AGGITEGAAT CETETATGGE TEATTACGAT TIANTITITA	360
	TATTTAGCAA AATAATGCAG AAGTAGTTCA GCGGTAGAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3543:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 804 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3543:	
	GTGAGAGTGA CGTTATGTTA TGTAAATAAC AGTTAATTAT ACCGGTGGTC GGGGTCGAAC	. 60
	CGCACTCCAC AAGTGGAAGA GATTTTGAGT CCCGCGCGTC TGCCAATTCC GCCACACCGG	120
	CTTAATGGTA AACAAAAAC TTCCCTTTGG AAGCAATTAT GGAGCGGAAG ATAGGATTTA	
		180
	CACCTATACC TCGTTCCGGG aAGGAACtGg TTCTAAAAGT TGAACTACTC CCGCAAATAT	240
	TAAATTATGG AGCGGAAGAT AGGATTTACA CCTATACCTC ATTCCAGGAA GGAATGTATT	300
	CTAAGAGTTG AAATACTCCC GCATTATTAT TAAATTATGG AGCGGAAGAT AGGATTTGCA	360
	CCTATACCTC GTTCCGGGAA GĞAckTGTTt CTAAAAGTTG AACTACTCCC GCATAAACCT	420
	GGAGGCGGCA ACCGGATTTG AACCGGTGAT AAAGGTTTTG CAGACCTCTG CCTTACCACT	480
	TGGCTATGCG CCAATAACTG GGCTAGCTGG ATTCGAACCA ACGAGTGACG GATMAAAGTC	540
	CGTTGCCTTA CCGCTTGGCT ATAGCCCATT AATAATAAGG GCGGCTGAAG GGGATCGAAC	600
	CCTCGAATGT CGGAACCACA ATCCGATGTG TTAACCACTT CACCACAGCC GCCATGGCAG	660
	GGGCAGTAGG AATCGAACCC ACACCAAAGT TTTGGAGACC TCTATTCTAC CGTTGAACTA	720
	TGCCCCTATT aAAAATaaTA ATKGGAGGGG GGCAGATTCG AAnTGCCGAA CCCGAAGGAG	780
	CGGGATTTAC ATTCCGCCGG GTTT	804
	(2) INFORMATION FOR SEQ ID NO: 3544:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3544:	
	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	-6
5	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	12
	TACTITACTC ACCTATTGTT GTCGCTGCAA GTGAAACATA TATCGGTCTT GTTGAAGCAG	18
10	GTGTTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	24
	CATCGCATAA GTTTGATKAC AAACAAGCTT CCATGACAAA AGTACTGACG AATATCGCAT	30
	TTGCGAAAGT CTCTACAAAT GCCTTTGAGG CACGTCGTTA TGGTTATTTA CGTGGATACA	36
15	GATACGATTA TTTTCAATAC AGCACAACGT GTCCGAAGTT	40
	(2) INFORMATION FOR SEQ ID NO: 3545:	
?0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3545:	
	CCGGCATTCT CACTTCTAAG CGCTCCACAT GTCCTTACGA TCATGCTTCA ACGCCCTTAG	6
30	AACGCTCTCC TACCATTGTC CAAAGGNATC NCACAGCTTC GGTAATATGT TTAGCCCCGG	12
	TACATTTTCG GCGCAGTGTC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGATGGC	18
	TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCACA TCCTTTTCCA CTTAACATAT	24
35	ATTTTGGGAC CTTAGCTGGT GGTCTGGGCT GTTTCCCTTT CGAACACGGA CCTTATCACC	30
	CATGTTCTGA CTCCCAAGTT AAATTAATTG GCATTCGGAG TTTGTCTGAA TTCGGTAACC	36
	CGAGAGGGGC CCCTCGTCCA AACAGTGGCT CTACCTCCAA TAATCATCAn TTGAGGCTAG	42
	CCCTAAAGCT AATTCGGAGA GAACCAGTAT CTCCAGTTCG ATTGGAATTC TnCG	47
	(2) INFORMATION FOR SEQ ID NO: 3546:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		

2578

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3546:

	GCAATTCGTA AAGTTGAAAC ATCAACATTA GGTGAAGAAA GTGAAAATGA CTTTATCGGT	120
	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGACTAGGTA ACAATGTCAA AGAACGTACT	180
5	GCTTTAATCT CTAAAGTCAT GGTTAATCTT GACGACTTAC CATTCGTTCA CAGTGACATG	240
	GAAATTGATA TGTTAGGTGA TGCATATGAA TTCCTAATTG GGCGCTTTGn GCGACACGGG	300
10	TAAAAAAAGC AGGCGAGTTC TATACACCAC AACAAGTATC TAAGATACTG GCGAGATTGT	360
10	CACAGACGGT AAAGATAANT ACGTCACGTG TATGACCCAA	400
	(2) INFORMATION FOR SEQ ID NO: 3547:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3547:	
	AACGTTTTCA CTTCGCCAAG CCATTTTCT TTGTGTTTAC TTTTTATTTT GACGTTTTAG	60
25	ACATAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT CGCATCCATT TTTTGCCTGG	120
	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG ACGCTAAGAA CCTTTCTTGA	180
20	CTTGTGACAA TCGCTTGCTT CTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA	240
30	CTAAACTCGT TGCGCTCTTT TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	300
	CATTTTCTT TGTGTTTGCT TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG	360
35	CGGTCTCAAT GCGGCTCATC GCATCCANTT TTTGCCTGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3548:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3548:	
•	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
50	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
	TACTITACTC ACCTATTGTT GTCGCTGCAA GTGAAACATA TATCGGTCTT GTTGAAGCAG	180
	GTGTTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	240

	TTGCAAAGTC TCTACAAATG CCTTTGAGGC ACGTCGTTAT GGTTATTTAC GTGATACAGA	360
	TACGATTATT TTCAATACAG CACAACGTGT CCGAAGTTGG	400
5	(2) INFORMATION FOR SEQ ID NO: 3549:	,
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3549:	
15	AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG TGTGACGGGC GGTGTGTACA	60
	AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA TTACTAGCGA TTCCAGCTTC	120
20	ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA CTTTATGGGA TTTGCTTGAC	180
	CTCGCGGTTT CGCTGCCCTT TGTATTGTCC ATTGTAGCAC GTGTGTAGCC CAAATCATAA	240
	GGGGCATGAT GATTTGACGT CATCCCCACC TTCCTCCGGT TTGTCACCGG CAGTCAACTT	300
25	AGAGTGCCCA ACTTAATGAT GGCAACTAAG CTTAAGGGTT GCGCTCGTTG CGGGACTTAA	360
	CCCAACATCT CACGACACGA GCTGACGACA ACCATGCACC	400
30 35	(2) INFORMATION FOR SEQ ID NO: 3550: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3550:	
40	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	60
	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATAATATTT	120
	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	180
45	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATAG CCGACCTGAG	240
	AGGGTGATCG GCCACACTGG AACTGAGACA CGGTCCAGAC TCCTACGGGA GGCAGCAGTA	300
50	GGGAATCTTC CGCAATGGGC GAAACCTGAC GGAGCAACGC CGCGTGAGTG ATGAAGGTCT	360
	TCGGATCGTA AAACTCTGTT ATTAGGGAAG AACATATGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3551:	

5	(A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3551:	
10	ACAAGGTAGC CGTATCGGAA GGTGCGGCTG GATCACCTCC TTTCTAAGGA TATATTCGGA	6
	ACATCTTCTT CAGAAGATGC GGAATAACGT GACATATTGT ATTCAGTTTT GAATGTTTAT	12
	TTAACATTCA AATATTTTTT GGTTAAAGTG ATATTGCTTA TGCGAGCGCT TGACAATCTA	18
15	TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA AAAATTAAAG CGGAGTTTAC	24
	TTTTGTAAAT GAGCATTTGA TTTTTTGAAA ATAAAGCAGT ATGCGAGCGC TTGACTAAAA	30
	AGAAATTGTA CATTGAAAAC TAGATAAGTA AGTAAAATAT AGATTTTACC AAGCAAAACC	36
20	GAGTGAATAA AGAGTTTTAA ATAAGCTTGA ATTCATAAGA ATAATCGCTA GTGTTCGAAA	42
	GAACACTCAC AAGATTAATA ACGCGTTTAA ATCTTTTTAT AAAAGANAAC GTTTAGCAGA	48
25	CAATGAGTTA AATTATTTTA AAGCAG	506
	(2) INFORMATION FOR SEQ ID NO: 3552:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0.5		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3552:	
	AAGCTGAGGC CGACAGTGGN GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT	60
40	CGTTTTAATC GATGGGGGA CGCATAGGAT AGGCGACGTG TCGATTGGAT TGCACGTCTA	120
	AGCAGTAAGG CTGAGTATTA GGCAAATCCG GTACTCGTTA AGGCTGAGCT GTGATGGGGA	180
•	GAAGACATTG TGTCTTCGAG GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA	240
45	AAATAGGTGC CCGTACCGCA AACCGACACA GGTAGTCAAG ATGAGAATTC TAAGGTGAGC	300
	GAGCGAACTC TCGTTAAGGA ACTCGGCAAA ATGACCCCGT AACTTCGGGA GAAGGGGTGC	360
	TCTTTAGGGT TAACGCCCAG AAGAGCCGCA GTGAATAGGC CCAAGCGACT GTTTATCAAA	420
50	AACACAGGTC TCTGCTAAAC CGTAAGEGAN TGTATAGGGG CTGACGCCTG CCCGGTGCTG	480
	GAAGGTTAAG AGGAGTGGTT AGCTTCTGCG AACTACGAAT CGAAGCCCCA GTAAACGGCG	540
	GCCGTAACTA TAACGGTCCT AAGGTAGCGA AATTCCTTGT CGGGTAAGTT CCGACCCGCA	600

	GTGAAGATGC	AGGTTACCCG	CGAÇAGGACG	GAAAGACCCC	GTGGAGCTTT	ACTGTAGCCT	720
5	GATATTGAAA	TTCGGCACAG	CTTGTACAGG	ATAGGTAGGA	GCCTTTGAAA	CGTGAGCGCT	780
	AcTTaCgTGG	aGGCGCTGGT	GGGATACTAC	CCTAGCTGTG	TTGGCTTTCT	AACCCGCACC	840
	ACTTATCGTG	GTGGGAGACA	GTGTCAGGCG	GGÇAGTTTGA	CTGGGGCGGT	CGCCTCCTAA	900
10	AAGGTAACGG	AGGCGCTCAA	AGGTTCCCTC	AGAATGGTTG	GAAATCATTC	ATAGAGTGTA	960
	AAGGCATAAG	GGAGCTTGAC	TGCGAGACCT	ACAAGTCGAG	CAGGGTCGAA	AGACGGACTT	1020
	AGTGATCCGG	TGGTTCCGCA	TGGAAGGGCC	ATCGCTCAAC	GGATAAAAGC	TACCCCGGGG	1080
15	ATAACAGGCT	TATCTCCCCC	AAGAGTTCAC	ATCGACGGG	AGGTTTGGCA	CCTCGATGTC	1140
	GGCTCATCGC	ATCCTGGGGC	TGTAGTCGGT	CCCAAGGGTT	GGGCTGTTCG	CCCATTAAAG	1200
	CGGTACrmGg	CTGGGTTCAG	AACGTCGTGA	GaCAGTTCGG	TCCCTATCCG	TCGTGGGCGT	1260
20	AGGAAATTTG	AGAGGAGCTG	TCCTTAGTAC	GAGAGGACCG	GGATGGACAT	ACCTCTGGTG	1320
	TACCAGTTGT	CGTGCCAACG	cATnAGCTGG	GTAGCTATGT	GTGGACGGGA	TAAGTGCTGA	1380
25	AACATnCTnA	AGCATGAAGC	CCCCCTCAAG	ATGAGATTTC	CCAACTTCGG	TTATAAGATC	1440
25	CCTCAAAGAT	GATGAGGTTA	ATAGGTTCGA	GGTGGAAGCA	TGGTGACATG	Tgggagctga	1500
•	CGAATACTAA	TCGATCGAAG	ACTTAATCAA	AATAAATGTT	TTGCGACAAA	tnCaCTTTTA	1560
30	CTTACTATCT	AGTTTTGAAT	GTATAAATTA	CATTCATATG	TCTGGTGACT	ATAGCAAGGA	1620
	GGTCACACCT	GTTCCCATGC	CGAACACAGA	AGTTAAGCTC	CTTAGCGTCG	ATGGTAGTCG	1680
	AACTTACGTT	CCGCTAGAGT	AGAACGTTGC	CAGGCAGTTT	TTTAATCAAA	TTTTGGTTAA	. 1740
<i>35</i>	TAAAATÄAAA	GGACAAGATA	AAAAAGTTA	TTGACTTAAA	TGTTAATAAA	ATGTATAATT	1800
	AATTCTTGTC	GGTAAGAAAA	ATGAACATTG	AAAACTGAAT	GACAATATGT	CAACGTTAAT	1860
	TCCAAAAAAC	GTAACTATAA	GTTACAAACA	TTATTTAGTA	TTTATGAGCT	AATCAAACAT	1920
40	CATAATTTTT	ATGGAGAGTT	TGATCCTGGC	TCAGGATGAA	CGCTGGCGGC	GTGCCTAATA	1980
	CATGCAAGTC	GAGCGAACGG	ACGAGAAGCT	TGCTTCTCTG	ATGTTAGCGG	CGGACGGGTG	2040
	AGTAACACGT	GGATAACCTA	CCTATAAGAC	TGGGATAACT	TCGGGAAACC	GGAGCTAATA	2100
45	CCGGATAATA	TTTTGAACCG	CATGGTTCAA	aagtgaaaga	CGGTCTTGCT	GTCACTTATA	2160
	GATGGATCCg	CGCTGCATTA	GCTAGTTGGt	AAGGTAACGG	CTTTACCCA		2209

(2) INFORMATION FOR SEQ ID NO: 3553:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 518 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3553:	
5	CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC CGAGTGAATA AAGAGTTTTA	60
	AATAAGCTTG AATTCATAAG AAATAATCGC TAGTGTTCGA AAGAACACTC ACAAGATTAA	120
	TAACGCGTTT CCTGTAGGAT GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC	180
10	CTTGGCACTA GAAGCCGATG AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA	240
	GTAAGCTTTG ATCCAGAGAT TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT	300
15	CGATATGTGA ATACATAGCA TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC	360
	CCGGAGGAAG AGAAAGAAAA TTCGATTCCC TTAGTAGCGG CGAGCGAAAC GGGAAGAGCC	420
	CAAACCAACA AGCTTGCTTG TTGGGGTTGT AGGaCACTCT ATACGGAGTT ACAAAGGmCG	480
20	ACATTrGACG AATCATCTGG GAAAGWTGAT CCAAGGAA	518
	(2) INFORMATION FOR SEQ ID NO: 3554:	
25	(A) LENGTH: 587 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3554:	
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
35	CTAATTCTCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTSGAC	120
	TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT GTGACCTCCT	180
	TGCTATAGTC ACCAGACATA TGAATGTAAT TTATACATTC AAAACTAGAT AGTAAGTAAA	240
10	AGTGATTTTG CTTCGCAAAA CATTTATTTT GATTAAGTCT TCGATCGATT AGTATTCGTC	300
	AGCTCCACAT GTCACCATGC TTCCACCTCG AACCTATTAA CCTCATCATC TTTGAGGGAT	360
	CTTATAACCG AAGTTGGGAA ATCTCATCTT GAGGGGGGCT TCATGCTTAG ATGCTTTCAG	420
15	CACTTA-CCC GTCCACACAT AGCTACCCAG CTATGCCGTT GGCACGACAA CTGGTACACC	480
	AGAGGTATGT CCATCCCGGT CCTCTCGTAC TAAGGACAGC TCCTCTCAAA TTTCCTACGC	540
	CCACGACGGa TAGGGACCGA ACTGTCTCAC GACGTTCTGA ACCCAGA	587
50	(2) INFORMATION FOR SEQ ID NO: 3555:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

	V	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3555:	,
	GAATCTGAAT CGCTATCTGA ATCCGAGTCA CTGTCGGAAT CTGAGTCACT GTCGGAATCT	60
10	GAATCGCTAT CTGAATCTGA ATCGCTGTCT GAATCTGAAT CGCTGTCTGA ATCTGAGTCG	120
	CTATCTGAGT CGGAATCGCT ATCTGAGTCG GAATCACTGT CGGAATCTGA ATCGCTGTCT	180
	GAGTCGGAAT CACTGTCGGA GTCAGAATCG CTGTCTGAGT CGGAATCACT GTCGGAATCT	240
15 _.	GAATCGCTAT CTGAATCTGA ATCGCTATCT GAATCCGAGT CACTGTCTGa GTCAGAATCG	300
	CTATCTGGAA TCTGGAGTCA CTGTCGGAAT CTGAGTCACT GGTCTGGAGT CAGAATCGCT	360
20	ATCTGGAATC CGANGTCATG GTCTGAGTCG GGAATCGCT	399
20	(2) INFORMATION FOR SEQ ID NO: 3556:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3556:	
	ATTCATCTTT CCAGATGATT CGTCTAATGT CGTCCTTTGT AACTCCGTAT AGAGTGTCCT	60
	ACAACCCCAA CAAGCAAGCT TGTTGGTTTG GGCTCTTCCC GTTTCGCTCG CCGCTACTAA	120
<i>35</i>	GGGAATCGAA TTTTCTTTCT CTTCCTCCGG GTACTAAGAT GTTTCAGTTC TCCGGGTGTG	180
	CCTTCTGATA TGCTATGTAT TCACATATCG ATAACATGAC ATAACTCATG CTGGGTTTCC	240
40	CCATTCGGAA ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG	300
	TAACGTCCTT CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT	360
	CTATGTTTCC ATCCTACAGG AAACGCGTTA TTAATCTTGT	400
45	(2) INFORMATION FOR SEQ ID NO: 3557:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 657 base pairs	•
	(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3557:

	ACAACTGGTA CACCAGAGGT ATGTCCATCC CGGTCCTCTC GTACTAAGG	A CAGCTCCTCT	120
5	CAAATTTCCT ACGCCCACGA CGGATAGGGA CCGAACTGTC TCACGACGT	T CTGAACCCAG	180
	CTCGCGTACC GCTTTAATGG GCGAACAGCA AnCCCTTGGG ACCGACTAC	A GCCCCAGGAT	240
	GCGATGAGC: GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGAACTCT	I GGGGGAGATA	300
0	AGCCTGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT GGCCCTTCC	A TGCGGAACCA	360
	CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT AGGTCTCGC	A GTCAAGCTCC	420
	CTTATGCCTT TACACTCTAT GAATGATTTC CAACCATTCT GAGGGAACT	TGAGCGCCTC	480
5	CGTTACCTTT TAGGAGGCGA CCGCCCCAGT CAAACTGCCc GCcTGACAC	r GTCTACcmCC	540
`	ACGATAAGTG GTGCGGGTTm GmAAGCCAAC ACAGCTAGGG TAGTATCCC	A CCAGCGCCTn	600
_	CCCACTAATA GCGCTCACGT TTCAAAGGCT CCTACCTATC CTGTACAAG	TGTGCCG	657
	(2) INFORMATION FOR SEQ ID NO: 3558:		
P5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:		
	GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCT	G GAACTAATAA	60
	TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAA	TTGTTGCAAC	120
15	GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTT	ACAGTTGTCG	180
	CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATAT	r gatatcacgc	240
0	CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATAT	r GCTTACACTG	300
.0	AAAAAGTGGG TAATGGTGCA GAACATAGTA AGACAATTAA TGTTGTTCG	I GGTCAAAATA	360
	ATCAATGGAC AATTGCGAAT AAGCCTGACT ATGTAACGTT	•	400
5	(2) INFORMATION FOR SEQ ID NO: 3559:		
:o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3559:		

	CGACACAAAA CAAGCCAAGC AAAACAAACG CATATAACGT AACAACACAT GGAAACGGCC	120
	AAGTATCATA TGGCGCTCGC CAACACAAAA CAAGCCAAGC	180
5	AACAACACAT GCAAACGGTC AAGTGTCATA CGGAGCTCGC CCGACATACA AGAAGCCAAG	240
	TAAAACAAAT GCATACAATG TAACAACACA TGCAGATGGT ACTGCGACAT ATGGGCCTAG	300
10	AGTAACAAAA TAAGTTTGTA ACTCTATCCA AAGACATACA GTCAATACAA AACATTACGT	360
	ATCTTTACAA CAGTAATCAT GCATTCTATG ATGCTTCTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3560:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3560:	•
5	TTTAGGTTAT ACAGCATTGC AGGCAGGATA CTTATCAATT ACTTATTTAA TCATGGTGTT	60
.5	ATTGATGATT CGAGTTGGTG AAAAATTATT ACAAAAAATG GGTTCTAAGC GACCAATGTT	120
	ATTAGGTACA TTCATTGTGG TCATTGGTAT TGCACTTATT TCATTAGTAT TCTTACCAGG	180
80	CATATTTTAT GTTATCAGTT GTGTCGTAGG ATATTTATGT TTCGGACTAG GCTTAGGTAT	240
	TTATGCAACA CCTTCTACAG ATACAGCTAT TTCGAATGCA CCGTTAGATA AAGTTGGCGT	300
	TGCTTCAGGT ATTTATAAAA TGGCTTCATC ACTTGGTGGG CGCATTCGGT GTCGCAATTA	360
35	GTGGTGCTGT ATATGCTGGT GCAGTTGCTG CAACGAGCAT TCCATACAGG TGCGATGATT	420
	GCACTTTGGG TTAACGTATT GAATGGGGAA TCCATGGCCA TTTATCGCAA TTTTAATnCG	480
	CGATT	485
0	(2) INFORMATION FOR SEQ ID NO: 3561:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3561:	
	AAATTATGTG AAGTAAAAGG AGTACGTCCA TGCAAAATTT AGATAAGAAT TTTCGACATT	60
	TATCECGTAA AGAAAAGTTA CAACAATTGG TTGATAAGCA ATGGTTATCA GAAGAACAAT	120

	ATGTCATCGC GCAAGGTGCA TTACCCGTTG GATTATTACC GAATATCATT GTGGACGATA	24
	AGGCATATGT TGTACCTATG ATGGTGGAAG AGCCTTCAGT TGTCGCTGCA GCTAGTTATG	30
5	GTGCAAAGCT AGTGAATCAG ACTGGCGGAT TTAAAACGGT ATCTTCTGAA CGTATTATGA	36
	TAGGTCAAAT CGTCTTTGAT GGCGTTGACG ATACTGAAAA ATTATCAGCA GACATTAAAG	42
10	CTTTAGAAAA GCAAATTCAT AAAATTGCGG ATGAGGCATA TCC	46
	(2) INFORMATION FOR SEQ ID NO: 3562:	• •
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 643 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3562:	
	AATTTAAACC CAATTGTCTG GCAAAACGTT TTCCTTTATA AAAAGATTTA AACGCGTTAA	60
25	TTAATCTTGG TGCnGGTCTT TCGAACACTA GCGATTATTT CTTATGAATT CAAGCTTATT	120
	TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT ACTTATCTAG	180
	TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA CTGCTTTATT TTCAAAAAAT	.240
30	CAAATGCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTT CTTAATGCAT TGTCTAACAA	300
	CCGCTTTCTT TAAAAAGAAT AGATTGTCAA GCGCTCGCAT AAGCAATATC ACTTTAACCA	360
	AAAAATATTT GAATGTTAAA TAAACATTCA AAACTGAATA CAATATGTCA CGTTATTCCg	420
<i>35</i>	CATCTTCTGA AGAAGATGTT CCGAATATAT CCTTAGAAAG GAGGTGATCC AGCCGCACCT	480
	TCCGATACGG CTACCTTGLT ACGACTTCAC CCCAATCATT TGTCCCACCT TCGACGGCTA	540
	GCTCCTAAAA GGTTACTCCA CCGGCTTCGG GTGTTACAAA CTCTCGTGGT GTGACGGGCG	600
40	GTGTGTACAA GACCCGGGAA CGTATTCACC GTAGCATGCC TCG	643
	(2) INFORMATION FOR SEQ ID NO: 3563:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 2323232, 23232	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3563:	
	GATAAATCCA AATAGTGCAC TATAAAAAAT AATATCTACT AAAGTATCTT TATGTAATCC	60
5 <i>5</i>		-

	TTCCATACCA TCGTACACTC AGTGGTCCTA AGTTAAATGC CACAGGATCT ATATAGTTAA	180
	ATACAATACC CATTCAACCT ACTCCTCACT CTTATGACTG TTCTTGATAA TTTCTTCATT	240
5	TAATCTTTCA CTAAATTCTT CGGCCGTGTT AATGCCCATG ATATTTAATC GATAGTTCAT	300
	TGCAGCGACC TCAATAATTA CCGCAACATT TCTACCAGGT CTTACAGGTA TTGGTTTTTT	360
	TTAGTGGnTT TCAGTATCTA AAATACTTAG CGTCTCTTCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3564:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3564:	
	TCGTCAGCNC NTGTCGTGAG ACGTTGGGTT AAGTCCCGCA ACGAGCGCAA CCCTTAAGCT	60
	TAGTTGCCAT CATTAAGTTG GGCACTCTAA GTTGACTGCC GGTGACAAAC CGGAGGAAGG	120
25	TGGGGATGAC GTCAAATCAT CATGCCCCTT ATGATTTGGG CTACACACGT GCTACAATGG	180
	ACAATACAAA GGGCAGCGAA ACCGCGANGT CAAGCAAATC CCATAAAGTT GTTCTCAGTT	240
s	CGGATTGTAG TCTGCAACTC GACTACATGA AGCTGGAATC GCTAGTAATC GTAGATCAGC	300
30	ATGCTACGGT GAATACGTTC CCGGGTCTTG TACACACCGC CCGTCACACC ACGAGAGTTT	360
:	GTAACACCCG AAGCCGGTGG AGTAACTTTT AGGAGCTAGC	400
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 3565:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) Toronogi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3565:	
45		
	CAAACCATTT GTAGCTATTT GTAACTCTTA TATTGATATT GTTCCTGGAC ATGTTCACTT	60
	GAGAGAGCTT GCAGATATAG CTAAAGAAGC AATTAGAGAA GCCGGTGCCA TTCCATTTGA	120
50	ATTCAATACA ATTGGTGTTG ATGATGGAAT AGCTATGGGA CATATCGGAA TGCGATATTC	180
	TCTACCATCA CGTGAAATTA TTGCAGATGC AGCTGAAACT GTAATTAACG CTCATTGGTT	240
	TGACGGCGTA TITTACATTC CTAATTGTGA CAAGATTACA CCCGGTATGA TITTAGCAGC	300

	TGCACATGGA AAAGCATTAA CACTTTCATC AATGTTTGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3566:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3566:	
15	AAATTACGTA CALATTTAAA GCTGACGGCA CTATGACTGC AGGAACATCT GCCCCACTTT	60
٠	CTGATGGTGC AGGATTTGTA GTTTTAATGT CTGGAGATAA AGTGAAAGAA CTCGGCGTGA	120
	CACCTATTGC ACGATTCGTT GGTTTTAAGG CAGTAGGCGT TGACCCGAAA ATTATGGGTA	180
20	TTGGGCCTGC ATATGCGATT CCTGAAGTAT TGTCACTCAG CAATCTATCT GTTGAAGACA	240
	TTGATTTGAT CGAATTGAAC GAAGCATTTG CTTCTCAAAC GATTGCATCT ATTAAAGAAG	300
	TAGGTCTAGA TATATCACGT ACGAATGTGA ATGGTGGCGC TATTGCTTKA GGTCATCCAT	360
25	TAGGTGCTAC AGGCGCAATG TTAACCGCGC GTTTACLTAA TGAAATGGGT AGACGTCCCG	420
	(2) INFORMATION FOR SEQ ID NO: 3567:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
<i>35</i>		•
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3567:	
•		60
40	TACGGGAAGT AGCTCAGCTT GGGTAGAGCA CTTGGTTTGG GACCAAGGGG TCGCAGGTTC	
40	GAATCCTGTC TTCCCGATAT ACTGTAATTA TTATGGGGGC TTAGCTCAGC TGGGAGAGCG	120
	CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA TATTATTTAC	180
45	AAACTATATA AGGCGGTGTA GCTCAGCTGG CTAGAGCGTA CGGTTCATAC CCGTGAGGTC	240
	GGGGGTTCGA TCCCCTCCAC CGCCACTATT TATTAGTTGT AAAATTATAT TTAGGACCTT	300
	TAGCTCAGTT GGTTAGAGCT AACGGCTCAT AACCGTTCGG TCGCAGGTTC GAGTCCTGCA	. 360
50	GGTCCCATAT AATTTTGGAG GAATACCCAG TCCGGCTGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3568:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3568:	
,	TTAGCCAATC CCCATTCTGG ACGTACCTCA CTCCAATCAC TCGCAAACCG CTGCGCTTCT	60
10	TCCACTGGAT GATTCACACG ACCAATCGTT GGCAGTTTGT CCAAACGTTC GCGATTCGGT	120
	GTTTCAGAAA TCATCGGCAT CGCGTCATTC AATGATTCAT ATGCATCTAA AGCAATAGAA	180
	GATAATGTGT CTGGCACATA TACCCATGCC AACGTATCAG TAGACGTATG ATGTTCTGCT	240
15	ACCGCAAAAA CAGTTGTCTC TGGANTATAC ACACCTGATT GTTTTAATCC TTGTCTGACA	300
	TTTGGACGAT TACATATCAT CGCTAATAAC TTAGCATTNA AAACCGCTTG ATGCGCCACC	360
••	ACAAGCCCCA CATTTCAAGT GATGGCATGG nTGTGGGTTn	400
20	(2) INFORMATION FOR SEQ ID NO: 3569:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3569:	
•	CCCCGACCTC ACGGGTATGA ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA	60
	GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG	120
35	CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG	180
	ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT ACCAAGCTGA GCTACTTCCC	240
45	GTATAATTAA CGCGCCCGAT AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC	300
40	TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA	360
	TCGAACCGGT ACGTGATCAC TCACCGCAGA TTTTAAGTCC	400
45 .	(2) INFORMATION FOR SEQ ID NO: 3570:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 542 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3570:

	GTTTTTATCC GTTGAGCGAT GGCCNTCCCA TGGGGACCTA CCGGATCACT AAGTCCGTCT	120
	TTTCGACCCT GCTTCGACTT GTAGGTCTCG CAGTCAAGCT CCCTTATGCC TTTACACTCT	180
5	ATGAATGATT TCCAACCATT CTGAGGGAAC CTTTGAGCGC CTCCGTTACC TTTTAGGAGG	240
	CGACCGCCCC AGTCAAACTG CCCGCCTGAC ACTGTCTCCC ACCACGATAA GTGGTGCGGG	300
10	TTAGAAAGCC AACACAGCTA GGGTAGTATC CCACCAGCGC CTCCACGTAA GYTAGCGCTC	360
	ACGTTTCAAA GGCTCCTACC TATCCTGTAC AAGCTGTGCC GAATTTCAAT ATCAGGCTAC	420
	AGTAAAGCTC CACGGGGTCT TTCCGTCCTG TCGCGGGTAA CCTGCATCTT CACAGGTACT	480
15	ATGATTTCAC CGAGTCTCTC GTTGAGACAG TGCCCAAATC GTTACGCCTT TCGTGCGGGT	540
	CG	542
	(2) INFORMATION FOR SEQ ID NO: 3571:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 619 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3571:	
30	ATGCCCGACC ACATGGAGCT TCCAATCCCA TTGCTCTAAC CAATGAGCTA CTGAACCATa	60
	ATAAAATGT AALGATGGCG GTCTCGACGG GAATCGAACC CGCGATCLCn GCGTGACAGG	120
	CAGGCGTGTT AACCCCTACA CTACGAGACC TATAAAATAT TGCGGGAGGC GGATTTGAAC	180
35	CACCGGACTT CGGGTTATGA GCCCGACGAG CTACCGAACT GCTCCATCCC GCGATAATAA	. 240
	AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC CCGTTAAGGC CCTGTCGGTT	300
40 -	TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG GTAAATCGCT	360
	ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC TCCTGCGTGA	420
	CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG AAGAGGGATT	480
45	CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT TCAGCCGGAC.	540
	TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTkCGA CCGAACGGTT	600
	ATGAGCCGTT AGCTCTAAC	619
50	(2) INFORMATION FOR SEQ ID NO: 3572:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3572:	
	GGTGAAGACA TCACGTATCA AGAAGCATGG GCAGATGAAG AATATCGTGA AGACTTAAAA	60
5	GCAGAATTAA TTGATCAAGC GGTTACTTCA TTGAGCCACA AGATTTATTC AGTGCGATGA	120
	TTCGTGAAAT TGAAACGCAA GATTTCGATA TAGAACATCT AGCGACGGCG ATTCGCAAAG	180
10	TTGAAACATC TACATTAGGT GAAGAAAGTG AAAATGACTT TATCGGGCTG TTCAGCGATA	240
	TGGATTTGAG TTCAACGCGA CTAGGTAACA ATGTCAAAGA ACGTACTGCT TTAATCTCTA	300
	AAGTCATGGT TAATCTTGAC GACTTACCAT TCGTTCACAG TGACATGGAA ATTGATATGT	360
15	TAGGTGATGC ATATGAATTC CTAATCGGGC GCTTTGCGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3573:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3573:	
	CARATCGTAR CTCGCCGGTT CATTCTACAR RAGGCACGCC ATCACCCATT RACGGGCTCT	60
30	GACTACTTGT AAGCACACGG TTTCAGGTTC TATTTCACTC CCCTTCCGGG GTGCTTTTCA	120
	CCTTTCCCTC ACGGTACTGG TTCACTATCG GTCACTAGAG AGTATTTAGC CTTAGGAGAT	180
	GGTCCTCCCA GATTCCGACG GAATTTCACG TGCTCCGTCG TACTCAGGAT CCACTCAAGA	240
35	GAGACAACAT TTTCGACTAC AGGATTATTA CCTTCTTTGA TTCATCTTTC CAGATGATTC	300
	GTCTAATGTC GTCCTTTGTA ACTCCGTATA GAGTGTCCTA CAACCCCAAC AAGCAAGCTT	360
	GTTGGTTTGG GGCTCTTCCC ATTTCGCTCG CGGCTACTAA	400
40	(2) INFORMATION FOR SEQ ID NO: 3574:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1051 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3574:	
	TCCCTCAAAG ATGGATGAGG TTAATAGGTT CGAGGTGGAA GCATGGTGAC ATGTGGCAGC	. 60

TTTACTTACT	ATCTAGTTTT	GAATGTATAA	ATTACATTCA	TATGTCTGGT	GACTATAGCA	180
AGGAGGTCAC	ACCTGTTCCC	ATGCCGAACA	CAGAAGTTAA	GCTCCTTAGC	GTCGATGGTA	240
GTCGAACTTA	CGTTCCGCTA	GAGTAGAACG	TTGCCAGGCA	TAATATTAAT	CCACAGTAGC	300
TCAGTGGTAG	AGCTATCGGC	TGTTAACCGA	TCGGTCGTAG	GTTCGAGTCC	TACCTGTGGA	360
GCCATGGCTC	CTTGGTCAAG	CGGTTAAGAC	ACCGCCCTTT	CACGGCGGTA	ACACGGGTTC .	420
GAGTCCCGTA	GnAGTCATTA	TTTTGGAGAA	TTAGCTCAGC	TGGGAGAGCA	TCTGCCTTAC	480
AAGCAGAGGG	TCGGCGGTTC	GAACCCGTCA	TTCTCCACCA	TTTTGATTAT	TAAATTATAT	540
GAATAAGCTG	GAGGGGTAGC	GAAGTGGCTA	AACGCGGCGG	ACTGTAAATC	CGCTcCTTCG	600
GGTTCGGCAG	TTCGAATCTG	CCCCCCTCCA	CCATCTATAT	ATTGGGCTAT	AGCCAAGCGG	660
TAAGGCAACG	GACTTTGACT	CCGTCACTCG	TTGGTTCGAA	TCCAGCTAGC	CCAGCCATTA	720
GAGCCATTAG	CTCAGTTGGT	AGAGCATCTG	ACTITIAATC	AGAGGGTCAG	AGGTTCGAAT	780
CCTCTATGGC	TCACTACTTG	CACTTTCCAT	TTTTGGGAAG	TGCTTTTTT	TAGGTTCTcC	840
ACCAAATGTG	GTGGGtATAT	AATTTAAAGA	ACTATTTTA	AAATACAACT	TTTAGAGCTT	900
TTATTATTAG	GCGGCCAGTC	CATTATTGGG	CTTGGTTGTC	TTCTTTTTT	CTCCTTTGtA	960
CAAGCTGAAA	ATCATCATTA	TACGTGCtTA	AAGTGTGAAA	TTTCTGTAAC	CAAAAGAATn	1020
CACTTGATTA	ATTINATOTA	TATAATGCCT	С			1051

. (2) INFORMATION FOR SEQ ID NO: 3575:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

40

45

10

15

20

30

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3575:

GTGGAGCGCT TAGAAGTGAG AATGCAAGTG TGAGTAGCGA AAGACGGGTG AGAATCCCGT 60

CCACCGATTG ACTAAGGTTT CCAGAGGAAG GCTCGTCCGC TCTGGGTTAG TCGGGTCCTA 120

AGCTGAGGCC GACACGTATG GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT 180

CGTTTTAATC GATGGGGGA CGCATAGGAT AGGCGACGTG SCGATTGGAT TGCACGTCTA 240

AGCAGTAAGG CTGAGTATTA GGCAAATCCG GTACTCGTTA AGGCTGAGCT GTGATGGGGA 300

GAAGACATTG TGTCTTCGAG TCGTTGATTT CACACTGCCG AGAAAAGCCT CTAGATAGAA 360

AATAGGTGCC CGTACCGCAA AACCGACACA GGTAGTCCAA GATGNGAATT CTAANGTGAA 420

(2) INFORMATION FOR SEQ ID NO: 3576:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3576:	
	TTTGTTCCTT TTTTAATTTA TATATTTAAA ATACACATAT TCAAGAGCTC GAGATATAAG	60
15	TCAATGTACT AGGCACACAA TTTAATATTG ACAGTAATTA ACCGAACGAA AATGCGCCCC	120
	GGGGCCCCAA CATAGAGAAT TTCGAAAAGA AATTCTACAG ACAATGCAAG TTGGCGGGGC	180
	CCCAACATAG AAGCTGGCCA ATAGTTAGCT TTCAATAATG TGCAAGTTGG GGTAAGGGCC	240
20	CCAACAGA AGCTGGCCAA TAGTCAGCTT TCAATAATGT GCAAGTTGGG GTAAGGGCCC	300
	CAACACAGÁG AATTTCGAAA AGAAATTCTA CAGACAATGC AAGTTGGCGG GGCCCCAACA	360
	CAGAAGCTGG GCCAATAGTC AGCTTTTCCA ATAATGTGGC	400
25	(2) INFORMATION FOR SEQ ID NO: 3577:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3577:	
	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	60
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT	120
40	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAC TAACCACTCC	180
	TCTTAACCTT CCAGCACCGG GCAGGCGTCA GCCCTATACA TCACCTTACG GTTTAGCAGA	240
45	GACCTGTGTT TTTGATAAAC AGTCGCTTGG GCCTATTCAC TGCGGCTCTT CTGGGCGTTA	300
45	ACCCTAAAGA GCACCCCTTC TCCCGAAGTT ACGGGGTCAT TTTGCCGAGT TCCTTAACGA	360
	GAGTTCGCTC GCTCACCTTA GAATTCTCAT CTTGACTAAC	400
50	(2) INFORMATION FOR SEQ ID NO: 3578:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3578:	
	TAACTTAACA CGACTTCTTA AGTCATTTAG TTTTAATGTT TGATGTGTTT CTGCTAAACC	60
5	AATCTCCCAA GGAACACCGG CATGCTGAAT ACTCGTTTTG GGTGAAGCCC TGTACCACCA	120
	TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA TGCAATGGTA	180
10	CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT CGCATTTTTC	240
	AAATCATGTA TCAGTTGCGC TAAATCTTCT ATTGAATAAA TATCATGATG TGGCGGTGGT	300
	GAAATCAGAC CGATACCTGG CGTTGGACCC TCTTGTCTTC GCAATCCACG GATATACCTT	360
15	AGTACCAGGT AATTGGACCA CCTTCACCAG GCTTTGCACC	. 400
	(2) INFORMATION FOR SEQ ID NO: 3579:	-
?0 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3579:	
	AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG ATCGAACCGC	. 60
3 <i>0</i>	TGACCTCCTG CGTGCAAAGC AGGCGCTCTC CCAGCTGAGC TAAGCCCCCCA TAATAATTAC	120
	AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC AAGTGCTCTA	180
	CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC CCATAACCTC	240
35	TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT TTTATTGAAA	300
	ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA TTTTAAGTCC	360
	TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT	400
10	(2) INFORMATION FOR SEQ ID NO: 3580:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3580:	
	ACGTAAATAA CCATAACGAC GTGCCTCAAA GGCATTTGTA GAGACTTTCG CAAATGCGAT	60

	TATGCGATCA GCCATTTCTG CAAGGCCACC GCCACTCGGT AATAAGCCAA CACCTGCTTC	180
	AACAAGACCG ATATATGTTT CACTTGCAGC GACAACAATA GGTGAGTAAA GTACAAGCTC	240
5	ACAGCCACCG CCTAAGGCAC GACCTTGAAC AGCTGTGACT ACTGGTTTCA AACTATACTT	300
	CAAACGATTA AAGCTATAAT GTAATTTATC AATTGATTGT GCACGACATC ATCTACAAGA	360
10	CCGTCTTCCA TGCGCCTTTT TCCATTAAGA AAGGGTTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3581:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEOUENCE DESCRIPTION: SEQ ID NO: 3581:	
	ATGTCATTGT TGGTACGGCT TTTCCAGAAG GATTACAAGG CCAAAACATT GCACGAACGA	60
	TTGCATTGCG TGCGGATTAT CTGACACGGT ACCGGGTCAA ACAGTGAATC GCTACTGCTC	120
25	ATCAGGATTA CAAACCATGC GATTGCAGCC AATCAAATTA TGGCTGGTCA AGGAGATATA	180
	CTTGTAGCTG GTGCGTTGAA TTGATGAGTG CCGTACCAAT GGGTGGCAAC GAGCCCACAA	240
	ACAATCCAAC CTTACAATAT GATGATATAG GTGCGTCATA TCCTATGGGT TTAACTGCTG	300
30		360
	AAAATGTAGC ATCCCAATTT GACGTATCAC GCGAAGATCA AGATGCTTAT GCTGTCAGAA	400
	GTCATCAACG TGCCTATGAC GCACAACGTG ATGGGTCCGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3582:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3582:	
	AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT	60
	TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAGA GACCTTGCGG	120
50	TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT	180
	AAGTTGGCTA CCATCGACGC TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT	240
	CCTCTTCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC	300

	ATTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3583:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	,
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3583:	
15	AAGCAGGCGC TCTCCCAGCT GAGCTAAGCC CCCAAATAGG TATTAAATTA ATGGTGGGCC	60
	TAAGTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT GCGCTCTAAC CAGCTGAGCT	120
	ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA ATACAATATG TCACGTTATT	180
20	CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA AAGGAGGTGA TCCAGCCGCA	240
	CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC ATTTGTCCCA CCTTCGACGG	300
	CTAGCTCCTA AAAAGGTTAC TCCACCGGCT TCGGGTGTTA CAAACTCTCG TGGTGTGACG	360
25	GGCGGTGTGT ACAAGACCCG GGAACGTATT TCACCGTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3584:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3584:	•
	ACTTATTTGG CGATATTTTA AGTGATGAAG CTTCAGTGAT TCCTGGTTCA CTTGGTTTAT	60
40	CACCTTCTGC TAGTTTTAGT AACGATGGTC CAAGATTGTA TGAGCCTATT CATGGATCAG	120
	CACCAGATAT TGCAGGTAAA AACGTTGCCA ATCCATTTGG AATGATTCTA TCTTTAGCGA	180
	TGTGTTTACG TGAAAGCTTA AATCAACCAG ATGCTGCAGA TGAATTAGAA CAACATATTT	240
45	ATAGCATGAT TGAACATGGG CAAACGACAG CAGATTTAGG CGGCAAATTG AATACTACTG	300
	ATATTTTCGA AATTCTATCT CAAAAATTGA ATCACTAAGG GGGGAGATGT AAATGGGGTC	360
50	AAACATTATT TGACAANGTG TGGGACAGAC ATGTGTTATA	400
50	(2) INFORMATION FOR SEQ ID NO: 3585:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

2597

-

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3585:	
	ACTGATGACA ATTTTATCTG CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC	60
10	TGTTTTCGAA ACTAATTTTA CCGCGATATC TGCATCTTTA TTCGCATTTT TCAAATCATG	120
	TATCAGTTGC GCTAAATCTT CTATTGAATA AATATCATGA TGTGGCGGTG GTGAAATCAG	180
	ACCGATACCT GGCGTTGACC CTCTTGTCTT CGCAATCCAC GGATATACCT TAGTACCAGG	240
15	TAATTGACCA CCTTCACCAG GCTTTGCACC TTGCGCAACT TTAATTTGAA TTTCTTTGGG	300
	CATGITGTAA ATAATCACTA GTTACACCAA AACGCCCAGA AGCAACTTGT TTAATCGCAC	360
	TTACTTTGGT GGCTTCCATC AACTTGTACT TCATAACGGT	400
20	(2) INFORMATION FOR SEQ ID NO: 3586:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3586:	
30	TACAAGTATT ACCATTATCT ChAGAGGATT CTAGATAAGG GGCATGGATC ATTTGTCTTC	60
	TTATGAATTT GAGCCAGATA AAGAATCTAT CTTAAGTGTA ATCTTGACCT CAATATGTTG	120
35	AGAGTTTGAT TTACGGAACA ATATTAGACG CAAAAGCAAG TGAGCATGCA ACACGTATGA	180
	CTGCGATGAA AAATGCCACT GATAATGCAA CTGAACTTAT TGATGACTTA TCATTAGAAT	240
	ATAACAGAGC GAGACAAGCA GAAATTACGC AACAAATTAC TGAAATTGTT GGTGGTTCCG	300
40	CAGCGCTTGA ATAATATTTA ANGGAGGAAA ATAGCATGGG AATTGGCCGT GTACTCAAGT	360
	TATGGGTCCT GTAATTGATG TTCGATTTGA ACATAACGAG	400
	(2) INFORMATION FOR SEQ ID NO: 3587:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• . •
50		

	AGGATTCGAA CCTGCGACCC CTTGGTCCCA AACCAAGTGC TCTACCAAGC TGAGCTACTT	120
	CCCGTATAAT TAACGCGCCC GATAGGAGTC GAACCCATAA CCTCTTGATC CGTAGTCAAA	180
5	CGCTCTATCC AATTGAGCTA CGGGCGCATA TGTTTTTATT GAAAATGGTG CCGAGGACCG	240
	GAATCGAACC GGTACGTGAT CACTCACCGC AGGATTTTAA GTCCTGTGCG TCTGCCAGTT	300
	CCGCCACCCC GGCACTATAA AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC	360
10	CTTGGCAAGG TTGTATTCTA CCGCTGAACT ACTTCTGCAT	400
	(2) INFORMATION FOR SEQ ID NO: 3588:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3588:	
	TACTATTGAC ATGTGTGAAC CCTATGTCCG ATTATTTCGC GACCTATTTC CTAATGCAGC	60
25	TATTATTTT GACAGATTCC ATATCGTTCA ACATTTAAAT AGAGAACTTA ATAAGTATCG	120
	TGTACAAGTT ATGAATGAAT ACCGTAATAA AAAAGGACCT GATTATACAA TTTTTAAGAA	180
	TAACTGGAAA GTCCTATTGA TGGATACTAG TAAAACCATA TTTAGTAAAT ACAGATGGAA	240
30	TARATCTTT AAGGGCTTAT AAACGCTCAT CTGACATTGT AGAATTCATG CTTTCAAAAG	300
	ACGATATACT ACGACACTCC TACGAACTTG TCCAGGGATT ACGAAAAGAC CTAAGGGTAT	360
35	GTAATTGGGC CTAAATTTAT TAATCGTTTA AATTCCGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3589:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(wi) CENTENCE DECEDITION, CENTEND NO. 3589.	
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3589: AGAGCGAACG GACGAGAAGC TTGCTTCTCT GATGTTAGCN GCGGACGGGT GAGTAACACG	60
50	TGGATAACCT ACCTATAAGA CTGGGATAAC TTCGGGAAAC CGGAGCTAAT ACCGGATAAT	120
	ATTTTGAACC GCATGGTTCA AAAGTGAAAG ACGGTCTTGC TGTCACTTAT AGATGGATCC	180
	THE THE PART AND TO ARREST AND THE TRADESTANT OF THE PART OF THE MARKET AND THE MARKET THE CARD.	2.40

	AGTAGGGAAT CTTCCGCAAT GGGCGAAAGC TGACGGAGCA ACGRCGCGTG AGTGATGAAG	360
	GTCTTCGGAT CGTAAAACTC TGTTATTAGG GAAGAACATA	400
5	(2) INFORMATION FOR SEQ ID NO: 3590:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 509 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3590:	
	GTTAGGAGAG CGTTCTAAGG GCGTTGAAGC ATGATCGTAA GGACATGTGG AGCGCTTAGA	60
	AGTGAGAATG CCGGTGTGAG TAGCGAAAGA CGGGTGAGAA TCCCLCCACC GATTGACTAA	120
20	GGTTTCCAGA GGAAGGCTCG TCCGCTCTGG GTTAGTCGGG TCCTAAGCTG AGGCCGACAG	180
	GTAGGCGAT GGATAACAGG TTGATATTCC TGTACCACCT ATAATCGTTT TAATCGATGG	240
	GGGGACGCAT AGGATAGGCG AACGTGCGAT TGGATTGCAC GTCTAAGCAG TAAGGCTGAG	300
25	TATTAGGCAA ATCCGGTACT CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGWGTCT	360
•	TCGAGTCGTT GATTTCACAC TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC	420
	CGCAAACCGA CACAGGTAAT CCAAGATGAG AATTCTAAGG TGAGCGAGCG AACTCTCGTT	480
30	AAGGAACTCG GCAAAATGAC CCCGTAACT	509
	(2) INFORMATION FOR SEQ ID NO: 3591:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3591:	
	ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA	60
45	TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA	120
	TCGAACCGCT GACCTCCTGC GTGCAAAGCA GGCGCTCTCC CAGCTGAGCT AAGCCCCCAA	180
	ATAGGTATTA AATTAATGGT GGGCCTAAGT GGACTCGAAC CACCGACCTC ACGCTTATCA	240
50	GGCGTGCGCT CTAACCAGCT GAGCTATAGG CCCATTAATT TGAATGAACA AACATTCAAA	300
	ACTGAATACA ATATGTCACG TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC	360

2600

. 55

(2) INFORMATION FOR SEQ ID NO: 3592:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 440 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3592:	
	TGGGnAACGC AACATCCTTT TCCAACTTAA CATATATTTT GGGACCTTAG CTGGTGGTCT	6
	GGGCTGTTTC CCTTTCGAAC ACGGACCTTA TCACCCATGT TCTGACTCCC aAGTTAAATT	12
15	AATTGCCATT CGGAGTTTGT CTGAATTCGG TAACCCGAGA GGGGCCCCTC GTCCAAACAG	18
	TGCTCTACCT CCAATAATCA TCACTTGAGG CTAGCCCTAA AGCTATTTCG GAGAGAACCA	24
20	GCTATCTCCA GGTTCGATTG GAATTTCTCC GCTACCCTCA GTTCATCCGC TCACTTTTCA	30
	ACGTAAGTCG GTTCGGTCCL CCATTCAGTG TTACCTGAAC TTCAACCTGa CCAAGGGTAG	36
	ATCACCTGGT TTCcGsGTST ACGACCAAAT ASTAAACGCC CTATTCAGAC TCGCTTTCGC	42
25	TANGGCTCCA CATTACTGGn	44
÷	(2) INFORMATION FOR SEQ ID NO: 3593:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		٠.
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3593:	
	TAAACGAACC AATTTTATTT GGTGCACCAC TAGTATTGAA TCCTGTGTTC TTTATTCCAT	6
	TTGTATTAGC ACCAATTGTT AACGTATGGA TTTTCAAACT TTTCGTTGAA GTGTTAGGAA	12
40	TGAATAGTTT TAGTGTGAAT TTACCTTGGA CAACACCAGG TCCATTGGGC ATTATCATGG	18
	GTACAGGTTT TGGTTTATGG TCATTCGTAC TAGCTATTAC TTTGATTGTT GTAGATATTA	24
45	TTATHTACTA CCCATTCCTA AAAGTTTATG ATAGTGAAAT TCTTGATGAA GAAGAAGGAC	30
	GTAAAGAAAG TAATTCAGAT TTAAAAGAAA AAGTTGCAGC AAACCTTTGA TACGAAAAAA	36
	GCTGATTCAA TTTTAGCGGC AAGTGGTGTA TCAGACGATG	40
50	(2) INFORMATION FOR SEQ ID NO: 3594:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3594:	
	AAGGGAATCG AATTITCTTT CTCTTCCTCC GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	6
10	TGCCTTCTGa TATGCTATGT ATTCACATAT CGATAACATG ACATAACTCA TGCTGGGTTT	120
	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
15	TCTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	300
	TARATGCTCA TTTACATAAG TARACTCTGC TTTAAAATAA TTTAACTCAT TGTCTGCTAA	360
	ACGTTTTCTT TTATAAAAG ATTTAAACGC GTTALTAATC CTCTCGCTC	409
20	(2) INFORMATION FOR SEQ ID NO: 3595:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3595:	
30	AATATAAGCC CTGGATCATA CATGACCTGT ATTTGGGCAA TCCCTTCTGC TACATCTTCT	60
	GCCCACTCAT TCAATATTTG TTTTGCAATA TCATCACCTT CTTCAGCTGC TTCAAACAAT	120
	ACTGGCACAT GTGTGCTTCT CGTAAATCCT CCGGCAATCA TGCGCTTTTT CAATGCACTC	180
35	GTTGCAGCAC GTTGCTCAAA CGTTGTATTT TCAGTTGGAC GATACAATAA ATACCCAACT	240
	TCATTTGCCT TATGAAGCTC ACCATTATCA ATATGACCTT GGATTATTCT TGTACGCACC	300
40	CCCAATGGCC TGGTACCAAG CGTCCATACA AAAGATCCGT TCTGGCTTGG ATATTGGATG	360
	GTAATTTCCA ATTCGGCCTA GTTAATGGCA GCGGTTTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3596:	100
45		
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 596 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3596:	

CTGCCGAACC CGAAGAGCGG ATTTACAGTC CGCCGCGTTT AGCCACTTCG CTACCCTCCA	120
GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG ACGGGTTCGA CCGCCGACCC	180
TCTGCTTGTA AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC	:240
GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGLGTCT TAACCGCTTG ACCAAGGAGC	300
CATGGCTCCA CAGGTAGGAC TCGAACCTAC GACCGATCGG TTAACAGCCG ATAGCTCTAC	360
CACTGAGCTA CTGTGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	420
TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	480
CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA	540
AGTAAAAGTG ATTTTGCTTC GCAAAACATT TATTTTGATT AAGTCTTCGA TCGATT	596
(2) INFORMATION FOR SEQ ID NO: 3597:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597:	
TCATCTTGAG GGGGGCTTCA TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	60
TACCCAGCTA TGCCGTTGGC ACGACAACTG GTACACCAGA GGTATGTCCA TCCCGGTCCT	120
CTCGTACTAA GGACAGCTCC TCTCAAATTT CCTACGCCCA CGACGGATAG GGACCGAACT	180
GTCTCACGAC GTTCTGAACC CAGCTCGCGT ACCGCTTTAA TGGGCGAACA GCCCAACCCT	240
TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC GAGGTGCCAA ACCTCCCCGT	300
CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG	360
CGATGGCCCT TCCATGCGGA ACCACCGGAT CAATAAAGTC	400
(2) INFORMATION FOR SEQ ID NO: 3598:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3598:	
	GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG ACGGGTTCGA CCGCCGACCC TCTGCTTGTA AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGLGTCT TAACAGCTG ACCAAGGAGC CATGGCTCCA CAGGTAGGAC TCGAACCTAC GACCGATCGG TTAACAGCCG ATAGCTCTAC CACTGAGCTA CTGTGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGGA CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA AGTAAAAGTG ATTTTGCTTC GCAAAACATT TATTTTGATT AAGTCTTCGA TCGATT (2) INFORMATION FOR SEQ ID NO: 3597: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597: TCATCTTGAG GGGGGCTTCA TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC TACCCAGCTA TGCCGTTGGC ACGACAACTG GTACACCAGA GGTATGTCCA TCCCGGTCCT CTCGTACTAA GGACAGCTCC TCTCAAACTT CCTACGCCCA CGACGGATAG GGACCGAACT GTCTCACGAC GTTCTGAACC CAGCTCGCGT ACCGCTTTAA TGGGCGAACA GCCCAACCCT TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC GAGGTGCCAA ACCTCCCCGT CGGTTGTAAC TCTTGGAGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG CGATGTGAAC TCTTGGGGA ACCACCGGAT CAATAAAGTC (2) INFORMATION FOR SEQ ID NO: 3598: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

	CACTTCAATT GTACCAATCA ATCGTTGACG ATCTTGATCG TAACGCCATG TAGCAATACC	180
	ACGATACTGT CCGTCACGAC TCGCGTATGC ATGCGCACTT GCTTCTGCAC CACGCGTATC	240
5 .	ATTTCCTGTT GCTAAAACAA CAGCATGTAT GCCATTCATA ACACCTTTAT TATGTGTTGC	300
	TGCACGATGA ATATCTACTT GGGCCAATAC AGAAGCACGT TCCATCGTTT GCAACCTCTT	360
	CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT	· 397
10	(2) INFORMATION FOR SEQ ID NO: 3599:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599:	
•	AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCT	60
	CCCCGTCGAT GTGAACTCTT GGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTTATCC	120
25	GTTGAGCGAT GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG	180
	CTCGACTTGT AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTTC	240
	CAACCATTCT GAGGGAACCT TTGAGCGCCT CCGTTACCTT TTAGGAGGCG ACCGCCCCAG	300
30	TCAAACTGCC CGCCTGACAC TGTCTCCCAC CACGATAAGT GTGCGGGTTA GAAAGCCAAC	360
	ACAGCTAGGG TAGTATCCCA CCAGCGCCTC CAACGTAAGC	400
35	(2) INFORMATION FOR SEQ ID NO: 3600:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>15</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3600:	
	ATCTGAATCT GAGTCGTTGT CTGAGTCCGA ATCGCTATCT GAATCTGAGT CGCTATCTGA	60
	GTCTGAGTCG CTATCTGAAT CTGAGTCGCT GTCTGAATCT GAATCACTGT CTGAGTCTGA	120
50	GTCGCTGTCT GAGTCTGAAT CGCTGTCAGA ATCTGAGTCG CTATCTGAGT CTGAATCTGA	180
	ATCACTGTCT GAGTCCGAAT CGCTATCTGA ATCTGAATCG CTATCTGAGT CTGAGTCGCT	240
	ATCCGAATCT GAGTCGCTAT CTGAGTCTGA GTCGCTATCC GAGTCTGAAT CGCTGTCTGA	300

	GGTCTGGAAT CTGANTCGCT AACTGAAATC TGAGTCGCTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3601:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Topobogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3601:	
15	ATTTAATACC TATTTGGGGG CTTAGCTCAG CTGGGAGAGC GCCTGCTTTG CACGCAGGAG	60
	GTCAGCGGTT CGATCCCGCT AGTCTCCACC ATTATTTGTA CATTGAAAAC TAGATAAGTA	120
	AGTAAAATAT AGATTTTACC AAGCAAAACC GAGTGAATAA AGAGTTTTAA ATAAGCTTGA	180
20	ATTCATAAGA AATAATCGCT AGTGTTCGAA AGAACATCCA CAAGATTAAT AACGCGTTTA	240
	AATCTTTTTA TAAAAGAACG TAACTTCATG TTAACGTTTG ACTTATAAAA ATGGTGGAAA	300
	CATAGGTTAA GTTATTAAGG GCGCACGGTG GGATGCCTTG GCACTAGAAG CCGATGAAGG	360
25	GNCGITACTA ACGACGATAT GCTTTGGGGA GCTGTAAGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3602:	
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3602:	•
	GCTGTCTGAG TCGGAATCAC TGTmGGAGTC AGAATCGCTG TCTGAGTCGG AATCACTGTC	60
40	GGAATCTGAA TCGCTATCTG AATCTGAATC GCTATCTGAA TCCGAGTCAC TGTCTGAGTC	120
	AGAATCGnTA TCTGAATCTG AGTCACTGTC GGAATCTGAG TCACTGTCTG AGTCAGAATC	.180
45	GCTATCTGAA TCCGAGTCAT TGTCTGAGTC GGAATCGCTC GCTGAGTCGG AATCGCTTGC	240
70	TGAATCTGAA TCACTCGCTG AGTCTGAATC ACTTGCTGAA TCTGAATCAC TCGCTGAATC	300
	TGAACCACTA TCTGATGTAG GAATCACTAC CCGAATCTGA ANCGCTATCT GAATAAGAAT	360
50	CGCTGCCAGA TCTGAACCTG GGGTCAGAAT CTGAAT	396
	(2) INFORMATION FOR SEQ ID NO: 3603:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 529 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

<i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:	
	TTTCTTATCT GTAATTTTAT CGTAAGATTT TTTCGCAATG AGATTTGGAT CGTnTTTGTC	6
10	CACTACAATA TCTAATAGTT TTACTTTAAG TCCAGCATTC ACAAAAAGTG CTGCCAGTTG	12
•	AGCGCCCATT GTGCCTGCGC CAAGAACGGT TACTTTATTA ATTGTCATAG TGATTCCTCC	18
	AATTTAGTTG AGGATAAGAT AACCATTAAG ATAATTGGAA TAACGTTGCT ATTTTATAAA	24
15	ATTAATTAAG TATCTTGAC AGTCATCTTA GCCTCTTATT TAAGGAAAAA GCTTTATGCT	30
	TAAAATAAGT CTTTTTAGT GAAATTAATG CATCTCATAT AATTATTTGC TATTTATACG	. 36
	AAAGCmGaAT CTCCAGTCAA AGCGCGTCCA ATTACTAAGG CATTAATTTC ATGTGTACCT	42
20	TCGTACGTGT AAATCGCTTC TGCATCAGAG AAGAAACGTG CAATATCATA ATCGTCAGCT	48
	AGTATGCCAT TACCACCTGT AATACCGCGG CCCATAGCTA CTmTCTCAC	52
25	(2) INFORMATION FOR SEQ ID NO: 3604:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3604:	
35	CACAAGATAA GCATTGTAGA TGTGGATGCT TTAACTGGGC AAGCGATTGG TCGTCCTAAA	6
	ACAGGTACAT ATGCGCTATC TGACCTAGTC GGTTTAGATA TTGCAGTGTC TGTAATTAAA	12
40	GGCATGCAAC AAGTACCTGA AGAAACACCT TATTTTCATG ATGTCAAAAT TGTAAATACG	18
40	TTGTTTGACA ATGGCGCACT CGGACGTAAA ACGAAACAAG GATTTTACAA AAAGGATAAA	24
	GAAACTAAAG CTCGACTTGT TTACGATGTT GAAAAACAAG ATTATGTACC TGTATCGCAA	30
45	CCACAATTAC CAATTTTAAA TGAATTTAAT AAAGACTTAG TGCaTAACCT TGATACCATA	36
	TTCCAATGCG CAAGACGAGC GGGGACTATT TTTATGGGG	39
	(2) INFORMATION FOR SEQ ID NO: 3605:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3605:	
	ATCACTTGAG GCTAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATCTCC AGGTTCGATT	60
5	GGAATTTCTC CGCTACCCTC AGTTCATCCG CTCACTTTTC AACGTAATCG GTTCGGTCCT	120
	CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG ATCACCTGGT TTCGGGTCTA	180
10	CGACCAAATA CTAAACGCCC TATTCAGACT CGCTTTCGCT ACGGCTCCAC ATTTACTGCT	240
	TAACCTTGCA TCAAATCGTA ACTCGCCGGT TCATTCTACA AAAGGCACGC CATCACCCAT	300
	TAACGGGCTC TGGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC TCCCCTTCCG	360
15	GGGTGGCTTT TCACCTTTCC CTCACGGTAA TGGGTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 3606:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·.
?5		See
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3606:	•
	AAATCCTGCG GTGAGTGATC ACTAACCCGG TTCGATTCCG GTCCTCGGCA CCATTTTCAA	60
30 ·	TAAAAACATA TGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA TCAAGAGGTT	120
	ATGGGTTCGA CTCCTATCGG GCGCGTTAAT TATACGGGAA GTAGCTCAGC TTGGTAGAGC	180
	ACTTGGTTTG GGACCAAGGG GTCGCAGGTT CGAATCCTGT CTTCCCGATA TACTGTAATT	240
35	ATTATGGGGG CTTAGCTCAG CTGGGGAGAG CGCCTGCTTT GCACGCAGGA GGTCAGCGGT	300
	TCGATCCCGC TAGTCTCCAC CATATTATTT ACAAACTATA TAAGGCGGTG TAGCTCAGCT	360
•	GGCTAGAGCG TACGGTTCAT ACCCGTGAGG TCGGGGGTTC	400
10	(2) INFORMATION FOR SEQ ID NO: 3607:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
so .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3607:	
	GGGTGTGCTT CTGATATGCT ATGTATTCAC ATATCGATAA CATGACATAA CTCATGCTGG	60
	GTTTCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA GCATATCGTC	120

	TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA CATGAAGTTA	CGTTCTTTTA	240
	TAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT TTCGAACACT	AGCGATTATT	300
5	TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCTT	GGTAAAATCT	360
	ATATTTTACT TACTTATCTA GTTTmCAATG TACAAATAAT		400
	(2) INFORMATION FOR SEQ ID NO: 3608:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3608:		
20	TAGTTTTCAA TGTACAAATA ATGGTGGAGA CTAGCGGGAT CGAACCGCTG	ACCTCCTGCG	60
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCAAAT AGGTATTAAA		120
	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT		180
25	GCTATAGGCC CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT		240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG		300
	GCACCTTCCG ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC	CCACCTTCGA	360
30	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT		400
٠	(2) INFORMATION FOR SEQ ID NO: 3609:		-
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
40			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3609:		
٠	AGGGCACTCT TACTGGGCGT GTTAAATTAC TAANTTCAAT CAGCAGAAGA	ACTAGGACAT	60
45	GGCGCTTTTA AAATTATTGA AACACATGCA TTAAAAGATG TACAAGCAGT	ATTGGGTTTT	120
	CATAATGACC CATCGCGTTC GGTAGGTACA TTTGCAATCA AAACAGGGGC	AATTACATCA	180
-	GCAGTAGATC GTTTTGAGTT TCATATTAAA GGCGTGGGTG GTCATGCTGC	AAACCAGAAC	240
50	AATGCAACGA TCCAGTTATT GTGTTGGCGC AATTGATTAA TAGTATTCAA	TCCATAGTTA	300
•	GTAGAAATCT ATCTGCGTTT GATGAAGCGG TAGTAACAAT TGGACAAATA	TCATGTGGTA	360

(2) INFORMATION FOR SEQ ID NO: 3610:

5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3610:	•
	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
15	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
,,,	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
20	TCTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	300
	TARATGCTCA TTTACATAAG TARACTCTGC TTTAAAATGA ATTTAACTCA TTGTCTGCTA	360
	AACGTTTTGC TTTTATAAAA AGATTTAAAC GCGTTGATTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3611:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3611:	
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	60
	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	120
40	GGCAACGTTC TACTCTAGCG GAANTAAGTT GNACTACCAT CGACGCTAAG GAGCTTAACT	180
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAAACATTTA	300
45	TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC ACATGTCACC ATGCTTCCAC	360
	CTCGAACCTA TTAACCTCAT CATCTTTGAG GGATCTTAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3612:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3612:	
5	ACCCAGCTCG CGTACCGCTT TAATGGGCGA ACAGCAATCC CTTGGGACCG ACTACAGCCC	60
	CAGGATGCGA TGAGCCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG	120
	GAGATAAGCC TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC CTTCCATGCG	180
10	GAACCACCGG ATCACTAAGT CCGTCTTTCG ACCCTGCTCG ACTTGTAGGT CTCGCAGTCA	240
	AGCTCCCTTA TGCCTTTACA CTCTATGAAT GATTTCCAAC CATTCTGAGG GAACCTTTGA	300
15	GRIGCCTCCGT TACCTTTTAG GAGGCGACCG CCCCAGTCAA ACTGCCCGCC TGACACTGTC	360
	TCCCACCACG ATAAGTGTnC GGGGGTTAGA AAGCCAACAC	400
	(2) INFORMATION FOR SEQ ID NO: 3613:	
20 , .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3613:	
	ACTTACAGCT CCCCAAAGCA TATCGTCGTT AGTAACGTCC TTCATCGGCT TCTAGTGCAA	60
30	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	120
	CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	180
35	TTTAAAATAA TTTAACTCAT TGTCTGCTAA ACGTTTTCTT TTATAAAAAG ATTTAAACGC	240
	GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT	300
	TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTTAT	360
40	CTAGTTTTCA ATGTACAAAT AATGGTGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC	420
	TTATCAGGCG TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTTTTTTGAA TGTTAAATAA	480
	ACATTCA	487
45	(2) INFORMATION FOR SEQ ID NO: 3614:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG	60
	AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG	120
5	CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG ATTCGAACCT GCGACCCCTT	180
	GGTCCCAAAC CAAGTGnTCT ACCAAGCTGA GCTACTTCCC GTATAATTAA CGCGCCCGAT	. 240
10	AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC TCTAThCAAT TGAGCTACGG	300
,,	GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA TCGAACCGGT ACGGTGATCA	360
	CTCACCGCAG ATTTTAAGTC CTGTGCGTCT GCnAGTTCCG	400
15	(2) INFORMATION FOR SEQ ID NO: 3615:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· · · · · ·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3615:	
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
30	GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG TTCTACTCTA	180
,	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	· 240
05	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	300
3 5	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	360
•	TTACTTTTTA TTTTGACGTT TAGGCATAAA AAAAAGAGAC	400
40	(2) INFORMATION FOR SEQ ID NO: 3616: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3616:	
50	TnGTGTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT AAAACTCTTT	60
	ATTCACTCGG TTTTGCTTGG KAAAATCTAT ATTTTACTTA CTTATCTAGT TTTCAATGTA	<u></u>
	CAATTTCTTT TTAGTCAAGC GCTCGCATAA GCAATATCAC TTTAACCAAA AAATATTTGA	180

	AAGATGTTCC GAATATATCC TTAGAAAGGA GGNGATCCAG CCGCACCTTC CGATACGGCT	300
5	ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG	360
5	TTACTCCACC GGCTTCGGGT GTTACAAACT CTCGTnGGTG TGACGGGCGG TGTGTACAAG	420
	(2) INFORMATION FOR SEQ ID NO: 3617:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3617:	
2 0	CACTAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC ACTCGGTTTT	60
20	GCTTGGTAAA ATCTATATTT TACTTACTTA TCTAGTTTTC AATGTACAAT TTCTTTTTAG	120
	TCAAGCGCTC GCATAAGCAA TATCACTTTA ACCAAAAAAT ATTTGAATGT TAAATAAACA	180
25	TTCAAAACTG AATACAATAT GTCACATTAT TCCGCATCTT CTGAAGAAGA TGTTCCGAAT	240
	ATATCCTTAG AAAGGAGGTG ATCCAGCCGC ACCTTCCGAT ACGGCTACCT TGTTACGACT	300
	TCANCCCAAT CATTTGTCCC ACCTTCGACG GCTAGCTCCT AAAAGGTTAC TCCACCGGCT	360
30	TCGGGTGTTA CAAACTCTCG TGGTGTGACG GGCGGTGTGT	400
_	(2) INFORMATION FOR SEQ ID NO: 3618:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3618:	
	GATATACGCT ATGGCTGGAG CAGTGTGGCC AAATGGCGGA AGACAAACGT TTAATGCGAT	60
45	ATACTTAGCG CAAAATATTG GTGTGGCTGT CGGTGCTGCA ATGGGCGGCT TTGTCGCAGA	120
	ATTTAGCTTT AACTATATCT TTTTAGCCAA TCTTATTATG TATGTTGTGT TTGCGCTTGT	180
	CCGGTTAACn AATTTAATAT TGAAATTAAT GCGAAAGTTA AATATCCAAC TCATTTAGAT	240
<i>50</i> .	ATTACTGGTA AAAAGAATAA AGCAAGATTT ATTTCATTAG TACTAATTTG TGCAATGTTT	300
	GCAATTTGTT GGGTTGCATA TATTCAATGG GGAGTCTACA ATCGCTTCAT TTTACACAAT	360
55	CTATTAATAT TTCAATGGGC ACAATATAGT GTTTTATGGG	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3619:	
10	TCGCACGCCT TCGCCTATCC TACTGCGTCC CCCCATCGAT TAAAACGATT ATAGGTGGTA	60
	CAGGNAATAT CAACCTGTTA TCCATCGCCT ACGCCTGTCG GCCTCAGCTT AGGACCCGAC	120
	TAACCCAGAG CGGACGAGCC TTCCTCTGGA AACCTTAGTC AATCGGTGGA CGGGATTCTC	180
15		
	ACCCGTCTTT CGCTACTCAC ACCGGCATTC TCACTTCTAA GCGCTCCACA TGTCCTTACG	240
20	ATCATGCTTC AACGCCCTTA GAACGCTCTC CTACCATTGT CCAAAGGAAA TCCACAGCTT	300
	CGGTAATATG TTTAGCCCCG GTACATTTTC GGCGCAGTGT CACTCGACTA GTGAGCTATT	360
	ACGCACTCTT TAAATGATGG CTGCTTCTAA GCCAACATCC	400
25	(2) INFORMATION FOR SEQ ID NO: 3620: (i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3620:	
<i>35</i>	TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA	60
	CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTTGA	120
	GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT CCACACATAG CTACCCAGCT	180
40	ATGCCGTTGG CACGACAACT GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA	240
	AGGACAGCTC CTCTCAAATT TCCTACGCCC ACGACGGATA GGGACCGAAC TGTCTCACGA	300
45	CGTTCTGAAC CCAGCTCGCG TACCGCTTTA ATGGGCGAAC AGCCCAACCC TTGGGACCGA	360
	CTACAGNCCC AAGGATGCGA TGAGCCGACA TCGAGGTGCC	4,00
	(2) INFORMATION FOR SEQ ID NO: 3621:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>	,2/ 10102021 420021	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3621:	
	CCACACCCGc AAATGGTGag CCATAGCAGG ATTCGGAACC TCTGCACCCT CTGATTAAAA	60
<i>5</i>	GTCAGCATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA	120
	ACCCCCAACC TACTGATTAC AAGTCAGTTG CTCTACCAAT TGAGCTAGGC CGGCAATATG	180
10	TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA CCCTCTGCTT GTAAGGCAGA	240
	TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC	300
	GGAACGTAAG TICGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA	360
15	ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTAATTTA TACATTCAAA	420
	ACTAGATAGT AAGTAAAAGT GATTITGCTT CGCAAAACAT TTATTITGAT TAAGT	. 475
	(2) INFORMATION FOR SEQ ID NO: 3622:	,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
25	(b) Totoboot: Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3622:	
; 30	TGGACGAAAC TTTATATCGA TCAATTTCTA TCGAGTTGGA CAATGCCGAA GCGTGACAAA	60
••	AGTTTTTACC ATGCATGGTT GCATTTAGCG CAACATGACC ATAGTTTTAC TAAAGCACAG	120
	CGChCAAGTG ATTAAAGGCT TACCCAATGA TCCTGAAATG ACGATAGAGT CAGTATTAAC	180
<i>35</i>	·	
	TCATTTTTCA ATAGATCAGG AAGACTACCA AGCTTATGTT GAAGGACATC TTTTGGCGTT	240
	ACCEGETTEE GCAGETATET TETATTACCE TTCACAACAE CATCACTTTE AACAACATTT	300
40	GTTAACGGAT TATTTGGCAA TTCGGTTAGT TGTCGAACAA TTGCTAGTTG GTGGATGAGT	360
	TTTAAGTCAG TCGCTAAAGA TTGTGGAAAG TAAGATCCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3623:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3623:	
	TAGATGCTTT CASACTTATC CCGTCCACAC ATAGCTACCC AGCTATGCCG TTGGACGACA	60

	ATTTCCTACG CCCACGACGG ATAGGGACCG AACTGTCTCA CGACGTTCTG AACCCAGCTC	180
	GCGTACCGCT TTAATGGGCG AACAGCCAAC CCTTGGGACC GACTACAGCC CCAGGATGCG	240
5	ATGACCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG GAGATAAGCC	300
	TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC TTCCATGCGG GAACACCGGA	. 360
10	TCACTAAGTC CGTCTTTCGA CCCTGCTCGA CTTTGTAGGn	400
	(2) INFORMATION FOR SEQ ID NO: 3624:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3624:	
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	60
: 25	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	120
	GGCAACGTTC TACTCTAGCG GAANTAAGTN GNACTACCAT CGACGCTAAG GAGCTTAACT	180
•	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
30	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAACATTTAT	300
	TTTGATTAAG TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC	360
	TCGAACCTAT TAACCTCATC ATCTTTGAGG GGATCTTATA	400
35	(2) INFORMATION FOR SEQ ID NO: 3625:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3625:	
	TTAAAGAACG CTAATAACTG ATCGTAACCA CTATATATAT TGTTGTGACC TCTAACAGCA	60
	TAATGTCTAA ATGTTTGTGG GATATATTGA AGCAATCCTT TTGCTGGATT GCCCTGTAAA	120
50	ACGTTGATGT CTCTAAGCGA ACTAGATTGA GTTATACCTG CATTTCCTCC TGATTCGTGT	-180
	TGAATCAAGC TAATGATATT TCCTACGTCA GCCGAAGTAA CATTAACACC CATTCGTTTT	240
	GCTGCACGAC GTATATCGCC TGCCCAAGCA GATGCAGCCT TATTAACACC TGAACCACTT	300

	CCTGGATGCG ACCCTTGCAT CANTTGGGAA ATGTANGTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3626:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Torobodi. Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3626:	
15	GATTGTGGTT CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCCTTATT ATTAATGGGC	60
	TATAGCCAAG CGGTAAGGCA ACGGACTTTG ACTCCGTCAC TCGTTGGTTC GAATCCAGCT	120
	AGCCCAGTTA TTGGCGGCAT AGCAAGTGGT AAGGCAGAGG TCTGCAAAAC CTTTATCACC	180
20	GGTTCAAATC CGGTTGCCGC CTCCAGGTTT ATGCGGGAGT AGTTCAACTT TTAGAACACG	240
	TTCCTTCCCG GAAGAGGTAT AGGTGCAAAT CCTATCTTCC GCTCCATAAT TTAATAATAA	300
	TGCGGGAGTA TTTCAACTCT TAGAATACAT TCCTTCCTGG AATGAGGTAT AGGTGTAAAT	360
25	CCTATCTTCC GCTCCATAAT TTAATATTTG CGGGAGTAGT TCAACTTTTA GAAACAGCTC	420
	CTTCCCGGAA CCGAGGTATA GGTGTAAATC CTATCTTCCG C	461
30	(2) INFORMATION FOR SEQ ID NO: 3627:	
30		
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3627:	
•	TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG	60
	AACGTAAGTT GGCTNANATC GACGCTAAGA ACCTTTCTTG ACTTGTGACA ATCGCTTGCT	120
45	TCTTTCCTCT TCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	180
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTGC	240
	TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT	300
`50	CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC GACTACCATC	360
	GACGCTAAGG GAGCTTAACT TCTGTGTnCG GGCATGGGGG	400
•	(2) INFORMATION FOR SEQ ID NO: 3628:	
<i>55</i>		

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3628:	
10	ATGCTTTCAG CACTTATCCC GTCCACACAT AGCTACCCAC CTATGCCGTT GGCACGACAA	60
•	CTGGGTACAC CAGAGGTATG TCCATCCGG TCCTCTCGTA CTAAGGACAG CTCCTCTCAA	120
	ATTTCCTACG ACCCACGACG GATAGGGACC GAACTGTCTC ACGACGTTCT GAACCCAGCT	180
15	CGCGTACCGC TTTAATGGGC GAACAGCCCA ACCCTTGGGA CCGACTACAG CCCCAGGATG	240
	CGATGAGCCG ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA	300
	GCCTGTTATC CCCGGGGTAG CTTTTATCCG nTGAGCGATG GGCCTTCCAT GCGGNACCAC	360
20	CGGnTTACTA AGTCCGTCTT TCGAnCCTGC TCGACTTGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3629:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3629:	
	TITATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTGAAAGG	60
35	ATGTACATAT GGATGCATAT CCGTTGATGA TAAATCATGT TTTTCATACC AAGTCGCTGC	120
	CGGCAAAACA ATGTCAGAAT ATAACGGTGT TGCCGTCATT CTGAAGTCTA AAGAGACCAC	180
	TAAATCTAAC TTACCTGTTG TTTCTTCACG CCACGTAATT TCTTCTGGCT TTTCATCTTC	240
40	ATTTGGTGTA GCTAATAACC CTGATTTTGT GCCAAGTAAA TGCTTCATAA AGTATTCTTG	300
	ACCITITGCA GAACITGAAA TTAAGITIGA ACGCCATATA AATAATGATI TIGGATGATI	360
45		400
	CTnTTTCAAA TCAGGATCTT CTATTGCAAA TGGGGTTTGT	
	(2) INFORMATION FOR SEQ ID NO: 3630:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 589 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	TTTAAGTTGT nGATTTAAAA TATTAATAAA GTGTAAATTT GACTATTGAN ATTCKTACAa	60
	ATACATATTA AAATAATATT TGTTGAATTA ATTGAGTTAG GAAATTTATT TTTTAGAAAT	120
5	AAAATAATTA AAAATAATTC TTGACTTACA AAAACTTACG AGTTATAATT AAATCTTGTA	180
	AGTGACAAAC GAACATTGAA AACTGAATGA CAATATGTCA ACGTTAATTC CAAAAACGTA	240
10	ACTATAAGTT ACAAACATTA TTTAGTATTT ATGAGCTAAT CAAACATCAT AATTTTTATG	300
. :	GAGAGTTTGA TCCTGGCTCA GGATGAACGC TGGCGGCGTG CCTAATACAT GCAAGTCGAG	360
	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	420
15	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATTATATTT	480
	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	540
	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATA	589
20	(2) INFORMATION FOR SEQ ID NO: 3631:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3631:	
	CCAACTGAGC TAATGGCTCT TCCATGGTGC CGGCCAGAGG ACTTGAACCC CCAACCTACT	60
	GATTACAAGT CAGTTGCTCT ACCAATTGAG CTAGGCCGGC AATATGTAAG AATAAATGGT	120
35	GGAGAATGAC GGGTTCGAAC CGCCGACCCT CTGCTTGTAA GGCAGATGCT CTCCCAGCTG	180
	AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG	240
40	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC	300
	CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA	360
,	AAAGTGATTT GCTTCGCAAA ACATTTATTT TGATTAAGTC	400
45	(2) INFORMATION FOR SEQ ID NO: 3632:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3632:

	TTCCACCATT TTTATAAGTC AAACGTTAAC ATGAAGTTAC GTTCTTTTAT AAAAAGATTT	120
	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT	180
5	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATNTTACTT	240
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA ACCGCTGACC	300
10	TCCTGGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAN GCCCCCANAT AGGTATTAAA	360
	TTAATGGGGG GGCCTAAGTG GACTCGAACC ACCGACCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 3633:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3633:	
25	ATATGTCAAC GTTAATTCCA AAAAACGTAA CTATAAGTTA CAAACATTAT TTAGTATTTA	60
	TGAGCTAATC AAACATCATA ATTTTTATGG AGAGTTTGAT CCTGGCTCAG GATGAACGCT	120
	GGCGGCGTGC CTAATACATG CAAGTCGAGC GAACGGACGA GAAGCTTGCT TCTCTGATGT	180
30	TAGCGGCGGA CGGGTGAGTA ACACGTGGAT AACCTACCTA TAAGACTGGG ATAACTTCGG	240
	GAAACCGGAG CTAATACCGG ATAATATTTT GAACCGCATG GTTCAAAAGT GAAAGACGGT	300
	CTTGCTGTCA CTTATAGATG GATCCGCGCT GCATTAGCTA GTTGGTAAGG TAACGGCTTA	360
35	CCAAGGCNAC GATGCATAGC CGACCTGAGA NGGTGATCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3634:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3634:	
	TGAGCTAGGC CGGCAATATG TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA	60
50	CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC	120
	TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA	180
<i>5</i> 5	CTTCTGTGTT CGGCATGGGA ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGAA	240

	TATTTTGATT AAGTCTTCGA TCGATTAGTA TTCGTCAGCT CCACATGTCA CCATGCTTCC	360
	ACCTCGAACC TATTAACCTC ATCATCTTTG AGGGATCTTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3635:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3635:	
	TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT TTAGCTCTAC	60
	TANACTOGTT GOGCTOTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	120
20	ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC	180
	GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA	240
25 .	CGTAAGTTGG GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	300
25 .	CTTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT	360
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	400
30	(2) INFORMATION FOR SEQ ID NO: 3636:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3636:	
40	TACTTATCTA GTTTTCAATG TACAATTTCT TTNTAGTCAA GCGCTCGCAT ACTGATTTTC	60
	AAAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT ATTTTTCTTA ATGCATTGTC	120
45	TAACAACCGC TTTCTTTAAA AAGAATAGAT TGTCAAGCGC TCGCATAAGC AATATCACTT	180
	TAACCAAAAA ATATTTGAAT GTTAAATAAA CATTCAAAAC TGAATACAAT ATGTCACGTT	240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC	300
50	GCACCTTCG ATACGGCTAC CTTGTTACGA CTTCACCCCA nTCATTTGTn CCACCTTCGA	360
	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3637:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3637:	
10	AGCGCTCGCA TAAGCAATAT CACTTTAACC AAAAAATATT TGGAATGTTA AATAAACATT	60
	CAAAACTGnA ATACAATATG TCACATTATT CCGCATCTTC TGAAGAAGAT GTTCCGAATA	120
	TATCCTTAGA AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT	180
15	CACCCCAATC ATTIGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT	240
٠.	CGGGTGTTAC AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC	300
20	ACCGTAGCAT GCTGATCTAC GATTACTAGC GATTCCAGCT TCATGTAGTC GAGTTGCAGA	360
	CTACAATCCG AACTGAGAAC CACTTATGGG ATTGCCTnAC	400
	(2) INFORMATION FOR SEQ ID NO: 3638:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3638:	
35	TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC GGAAGTAAGT CGAnCTACCA	60
	TCGACGCTAA GGAGCTTAAC TTCTGTGTTC GGCATGGGAA CAGGTGTGAC CTCCTTGCTA	120
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	180
40	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	240
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	300
	AACCGAAGTT GGGGAAATCT CATCTTGAGG GGGGCTTCAT GCTTAGATGC TTTCAGCACT	360
45	TATCCCGTCC ACACATAGCT ACCCAGCTAT GCCGTTGGCA	400
	(2) INFORMATION FOR SEQ ID NO: 3639:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	

	ATGTCTCTAA CGCCTTTAAT AGTATTGAAC ACAATTGGGA AAAAAGCAGC GATAAAAATA	60
	ATCGCAATCG CTGGCAAACT ACCAATACCA AACCATAGAA CAACAAATGG TGCCCATGCT	120
5 .	ATCGGAGATA TCGGCCTAAT CAATTGAAAT AGCGGTTCGA TAGCGTTGTA TAGCCAACGA	180
	TTCCTTCCAA GCAAGAAGCC CAATGGAATA GCAACCAACA ATGCGACAAC AAAGCCCGCT	240
	ACAAATCTCC ATAAACTAAT TGCTAAATGT TGGAAAATTT CTCCAGTAAC AATGAAAGAC	30Ó
10	CATATACTIT TTCCTACAAG AGCAGGACCC GGTAACAATA CAGGTTGGTA ATGCCCAATA	360
	ATARTGACCA TTTCCCAART GCCTAAGAAA ATAATAAATG TGATAATAGG TAATATAAAT	420
15	TTGTTATTTG TGGGACGTGT CATGAACGCG ATGCCTCCTT ATACAATGAC GGTTCAACAA	480
	AGTCATCCAT ATGCAGGTGG ATTAAACAAA TGATGTTGTT TTACCANGTC GTAATTTCCT	540
	GATAGCCGGA T	551
20	(2) INFORMATION FOR SEQ ID NO: 3640:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3640:	
30	CACTAAACTA AATTAATGAA GTGCCTTATG TATAAAAATT ATAACTTGAT CCAACTTACA	60
	CTACCAATAG AAACTTCTGT TAGAATTCCT CAAATTGATA TTTCGCGATA TGTTAATGAA	120
35	ATTGTTGAAA CGATACCTGA TAGCGAATTC GATAAATTCA GACATCATCG TGGCGCAACA	180
	TCCTATCATC CAAAAATGAT GTTAAAAATC ACCTTATATG CATATACTCA ATCTGTATTT	240
	TCTGGTCGTA GAATAGAGAA ATTACTTCAT GACAGTATTC GAATGATGTG GTTAGCTCAA	300
40	AATCAAACAC CTTCTTATAA AACTATTAAT CGTATTAGAG TGAATCCTAA TACTGATGCG	360
	TTAATTGAAT CTTTATTTAT CCAGTTTCAT AGTCAATGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3641:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3641:

	GATTGTCCTT TGGCAATGGT AGGAGAGCGT TCTAAGGGCG TTGAAGCATG ATCGTAAGGA	120
	CATGTGGAGC GCTTAGAAGT GAGAATGCCG GTGTGAGTAG CGAAAGACGG GTGAGAATCC	180
5	CGTCCACCGA TTGACTAAGG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC	240
	CTAAGCTGAG GCCGACAGNG TAGGCGATGG ATAACAGGTT GATATTCCTG TACCACCTAT	300
	AATCGTTTTA ATCGATGGGG GGTCGCATAG GATAGGCGAA CGTTGCGATT GGATTGCACG	360
10	TCTAAGCAGT AAGGCTGGAG TATTAGGCAA ATCCGGTA	398
	(2) INFORMATION FOR SEQ ID NO: 3642:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3642:	
	TAATGTCTAC ACTTTGCTTG CGATCATTCA TTTTAAAGCC AGACTTTTTA TAATCTTGTA	60
25	CAAATGCTTG CGCTACATCC TTGTGTTGAT CAAGCAATTC CCCTCTCAGT ACTAGCACAC	120
•	AGCAATACGC ATCAGGLATA ACGTCATCAC CATGTTTCAA AGTCTTACCT TTGCCTAACT	180
	TTTCACCCAG TGCACCGAAT GGTTCGGCTA CAGAATACCC TGTAATTCTG TGTTCACTCA	240
30	ATGCGGCTGG CATTTCTGCT GGCGACATTT CATGATAGCT AAAATGCCCC GGTTTAATCT	300
	TTAATTGTTT ACGTAATTCC TCAAGTAAAA GATAATGTGL TGAATAACGA TGTGGLATAC	360
35	CAAAATGGKA ATCATCGCCA TTALTATTAA ATTCATTTAA GTGCATACCT TTTTGTCCCA	420
	TAATGACATT GCCTTCATG	439
	(2) INFORMATION FOR SEQ ID NO: 3643:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3643:	
. '	ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA	60
50	TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA	120
	TCGAACCGTG ACCTCCTGCG TGCAAAGCAG GCGCTCTCCC AGCTGAGCTA AGCCCCCAAA	180

	GCGTGCGCTC TAACCAGCTG AGCTATAGGC CCATTAATTT GAATGAACAA ACATTCAAAA	300
	CTGAATACAA TATGTCACGT TATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT	360
5	TAGAAAGGAG GTGATCCAGC CGCACCTTnC GATACGGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3644:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3644:	
	GCGAAACTGT ACGGAGCAAC GCCGCGTGAG TGATGAAGGT CTTCGGATCG TAAAACTCTG	60
20	TTATTAGGGA AGAACATATG TGTAAGTAAC TGTGCACATC TTGACGGTAC CTAATCAGAA	120
	AGCCACGGCT AACACGTGCC AGCAGCCGCG GTAATACGTA GGTGGCAAGC GTTATCCGGA	180
•	ATTATTGGGC GTAAAGCGCG CGTAGGNGTT TTTTAAGTCT GATGTGAAAG CCCACGGNTC	240
25	AACCGTGGAG GGTCATTGGA AACTGGAAAA CTTGAGTGCA GAAGAGGAAA GTGGAATTCC	300
	ATGTGTAGCG GTGAAATGCG CAGAGATATG GAGGAACACC AGTGGCGAAG GCGACTTTCT	360
	GGTCTGTAAC TGACGCTGAT GTGCGAAACG TGGGGATCA	399
30	(2) INFORMATION FOR SEQ ID NO: 3645:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3645:	
	TATTATACTT TACATTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATC	60
	TTTCTTTGTG TTTGCTTTTA TTTTGACGTT TTAGACATAA AAAAAGAGAC CTTGCGGTCT	120
45	CAATGCGGCT CATCGCATCC ACTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	180
•	ThCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	240
	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAAATNAT ACATTCAAAA CTAGATAGTA	300
50	AGTAAAAGTG GATTTTGCTT CGCAAAACAT TTATTTTGGA TTAAGTCTTC GATCGGATTA	360
	GTATTCGTCA GCTCCACATG TCACCATGGC TTCCACCTCG	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 758 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10 `	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3646:		
10	AGATAAGTAA GTAAAATATA GATTTTACCA AGCAAAACCG AGTGAATAAA	GAGTTTTAAA	6
	TAAGCTTGAA TTCATAAATA ATCGCTAGTG TTCGAAAGAC ACGANCAAGA	TTAATAACGC	12
15	GTTTAAATCT TTTTATAAAA GAACGTAACT TCATGTTAAC GTTTGACTTA	TAAAAATGGT	18
	GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC CTTGGCACTA	GAAGCCTATG	24
	AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA GTAAGCTTTG	ATCCAGAGAT	30
20	TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT CGATATGTGA	ATACATAGCA	36
	TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC CCGGAGAAGA	GAAAGAAAAT	42
	TCGATTCCCT TAGTAGCGGC GAGCANAACG GGAAGAGCCC AAACCAACAA	GCTTGCTtGg	48
25	GGGTmTGTaG GACACTCTAT ACGGATTACA AAGGACGACA TTAGACGAAT	CATCTGGaAA	54
	GATGAATCAA AGAAGGTAAT AATCCTGTAG TCGAAAATGT TGTCTCTCTT	GAGTGGATCC	60
	TGaGTACGAC GGAGCACGTG AAATTCCGTC GGAATCTGGG GAGGACCATC	TCCTAAGGCT	66
30	AAATACTCTC TAGTGACCGA TAGTGGAACC aGTaCCGTGA GGGAAAGGTG	AAAAGCACCC	72
	gGAAgGnAGT TGAAATaGAA ctGGAAACCG TGTGCTTA		75
35	(2) INFORMATION FOR SEQ ID NO: 3647:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid		
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
		•	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3647:	-	• .
45	ACAAACTCCG AATGCCAATT AATTTAACTT GGGAGTCAGA ACATGGGTGA	TAAGGTCCGT	6
	GTTCGAAAGG GAAACAGCCC AGACCACCAG CTAAGGTCCC AAAATATATG	TTAAGTGGAA	120
50	AAGGATGTGG CGTTGCCCAG ACAACTAGGA TGTTGGCTTA GAAGCAGCCA	TCATTTAAAG	186
	AGTGCGTAAT AGCTCACTAG TCGAGTGACA CTGCGCCGAA AATGTACCGG	GGCTAAACAT	240
	ATTACCGAAG CTGTGGATTG TCCTTTGGnA TGGGTAAGGA GAGCGTTCTA	AGGGCGTTGA	30

	AAGACGGGTG AGAATCCCGT CCACCGATTG ACTAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3648:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 521 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3648:	
15	GTCATTGGAA ACTGGAAAAC TTGAGTGCAG AAGAGGAAAG TGGAATTCCA TGTGTAGCGG	60
	TGAAATGCGC AGAGATATGG AGGAACACCA GTGGnCGAAG GCGACTTTCT GGTCTGTAAC	120
	TGACGCTGAT GTGCGAAACG TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC	180
20.	GTAAACGATG AGTGCTAAGT GTTAGGGGGT TTCCGCCCCT TAGTGCTGCA GCTAACGCAT	240
	TAAGCACTCC GCCTGGGGAG TACGACCGCA ANGTTGAAAC TCAAAGGAAT TGACGGGGAC	300
	CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC TTACCAAATC	360
25	TTGACATCCT TTGACAACTC TAGAGATAGA GCCTTCCCCT TCGGGGGACA AAGTGACAAG	420
	TGGTGCATGG TGTCGTCAAC TCCTGTCGTT GAGATGTTGG GGTAANTCCC CGCAANGAGC	480
30	GCACCCTTAA GCCTTAGTTT nCATCATTAA GTTGGGCACT C	521
30	(2) INFORMATION FOR SEQ ID NO: 3649:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3649:	
	CCAAAGTTCA TCTTTTACGA ATGAGAAATA GGTGTTGCAT ATTCAATGGT CTCATCTTGT	60
45	TTATAAAAGC CACCATCTAA ATCACTAATC CATTGTGGTA AGTCTCCAAG TTCGTCTTCC	120
	ATACGTGTTT TAACACGTTC GTATCCCATT GCATCCCATA ATTGGAATGG ACCAAGTTTC	180
	CAGTTGAACC CCCAGACAAG CGCACGGTCT ATGTCTCGGA AATCATCGGT AGCTTTAGGT	240
50	ACATTGATAG CAGAGTAATA GAAATTATTA CGTAATGTCT CCCATAAAAA TAGTCCCGCT	300
	TCGTCTTGcG CATTGAATAT GGTATCAAKG TTATGCACTA AGTCTTTATT AAATTCATTT	360
	AAAATTGGTA ATTGTGGTTG CGATACAGGT ACATAATCTT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3650:	
10	GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGn CCGTTAAGGC	60
	CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG	120
15	GTAAATCGCT ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC	180
	TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG	240
	AAGAGGGATT CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT	300
20	TCAGCCGGAC TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTGCGA	360
	CCGAACGGTT ATGGAGCCGT TAGCTCTAAn CAACTTGAGC	400
25	(2) INFORMATION FOR SEQ ID NO: 3651: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3651:	
35	TGGCGCTGTG CTTTAGTAAA ACTATGGTCA TGTTGCGCTA AATGCAACCA TGCATGGTAA	60
	AAACTTTGCT CACGCTTCGG CATTGTCCAA CTCGATAGAA ATTGATCGAT ATAAAGTTTC	120
	GTCCATTTAA TCATTTGACG ATTCACTTGT TCGCTAAGTG GCTCACCTTG TTCATCTATT	180
40	ATTGCATCAC TCATCGGACG TACATCATAG TGATGATATG ATTCAGCCAT ATCACGTTTT	240
	GATTTTTCTA ATAGTAGATC AGCAACAACA TCAACATTTG AATGATTCAT ATATGATGGC	300
	AGGTACGTCT TTTAATGTTT TAATGTTATC AATATAAGA TGATGTAGTG TTGCGGGATA	360
45	TGTAGTGANG TTCAAGTAAC ATATCAGTAA CAAGTTGATT	400
	(2) INFORMATION FOR SEQ ID NO: 3652:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3652:

	CATTGTCCAA AGGACAATCC ACAGCTTCGG TAATATGTTT AGCCCCGGTA CATTTTCGGC	60
5	GCAGTGTCAC TCGACTAGTG AGCTATTACG CACTCTTTAA ATGATGGCTG CTTCTAAGCC	120
	AACATCCTAG TTGTCTGGGC AACGCCACAT CCTTTTCCAC TTAACATATA TTTTGGGACC	180
	TTAGCTGGTG GTCTGGGCTG TTTCCCTTTC GAACACGGAC CTTATCACCC ATGTTCTGAC	240
	TCCCAAGTTA AATTAATTGG CATTCGGAGT TTGTCTGAAT TCGGTAACCC GAGAGGGGCC	300
	CCTCGTCCAA ACAGTGCTCT ACCTCCAATA ATCATCACTT GAGGGCTAGC CCTAAAGCTA	360
. =	ATTTCGGAGA GAACCAGCTA TCTCCAGGTT CGATGGAATT	400
5	(2) INFORMATION FOR SEQ ID NO: 3653:	
eo	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3653:	•
	GGTTCGGTCC TCCATTCAGT GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG	60
	TTTCGGGTCT ACGACCAAAT ACTAAACGCC CTATTCAGAC TCGCTTTCGC TACGGCTCCA	120
00	CATTTACTGC TTAACCTTGC ATCAAATCGT AACTCGNCGG TTCATTCTAC AAAAGGCACG	180
	CCATCACCCA TTAACGGGCT CTGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC	240
15	TCCCCTTCCG GGGTGCTTTT CACCTTTCCC TCACGGTACT GGTTCACTAT CGGTCACTAG	300
o o	AGAGTATTTA GCCTTAGGAG ATGGTCCTCC CAGATTCCGA CGGAATTTCA CGTGCTCCGT	360
	CGTACTCAAG NATCCACTCA AGAGAGACAA CATTTTCGAC	400
o	(2) INFORMATION FOR SEQ ID NO: 3654:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3654:	
o	AAAGGTCCTA AATATAATTT TACAACTAAT AAATAGTGGC GGTGGAGGGG ATCGAACCCC	60
	CGACCTCACG GGTATGAACC GTACGCTCTA GCCAGCTGAG CTACACCGCC TTATATAGTT	120

	GCGCTCTCCC AGCTGAGCTA AGCCCCCATA ATAATTACAG TATATCGGGA AGACAGGATT	240
	CGAACCTGCG ACCCCTTGGT CCCAAACCAA GTGCTCTACC AAGCTGAGCT ACTTCCCGTA	300
5	TAATTAACGC GCCCGATAGG AGTCGAACCC ATAACCTCTT GATCCGTAGT CAAACGnTCT	360
	ATCCAATTGA GCTACGGGCG CATATGTTTT TATTGAAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3655:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3655:	
20	TATTGAAGCC TGAGTCAACA CGTACGCAAA TCGATCAAAT CATCGATGAA GCGAAACATA	60
	CAATTTTAAA TCTGTATGTG TGAATCCAAC ACATGTTAAA TATGCAGCAG AGCnnCTAGC	120
٠	TGATTCAGAG GTGCTCGTTT GTACGGTAAT AGGATTCCCA TTAGGTGCGT CGACAACTGC	180
25	AACGAAAGCA TTTGAAACAG AAGATGCAAT TCAAAATGGT GCAGATGAAA TTGACATGGT	240
	CATCAACATC GGCGCATTAA AAGATGGACG TTTTGATGAT GTACAACAAG ACATTGAAGC	300
	AGTGGTTAAA GCTGCGAAAG GTCACACAGT AAAAGTGGAT TATTGAGACG GTATTGTTGG	360
30	GACCATGACG AAATTGTAAA AGCGAGTGGA ATTAACCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3656:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3656:	
	GATGAGTCGC TGnCTGATCT GAACGCTGTC TGAGnCCGAA CGCTACTGAA CTGAGTCGCT	60
45	GTCTGAGTCT GAATCGCTAT CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTGTCTGA	120
•	GTCTGAGTCG CTGTCTGAGT CTGAATCGCT ATCTGAATCT GAGTCGCTGT CTGAGTCTGA	180
	GTCGCTATCT GAGTCTGAGT CGCTGTCTGA ATCTGAGTCG CTGTCTGAAT CTGAATCGCT	240
50	GTCTGAGTCT GAATCGCTAT CTGAGTCTGA ATCGCTATCT GAGTCTGAAT CACTGTCTGA	300
	GTCCGAGTCA CTGTCTGAAT CTGACTCACT ATCTGATTCT GAGTCGCTAT CTGATTCTGA	360

	ATCTGAACCT GAGTCGCTGT CTGAGCCTGA AGTCACTGGT CTGAATCCGA ATCCGGATCC	480
5	GGGTCTGGGG CTTGGGTTCC GGTTCTGGGT CTGGGACTTG GGTTCTGGGA	530
	(2) INFORMATION FOR SEQ ID NO: 3657:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3657:	
	GTTTTAACTA CGCAAGACAT CGAAGAAGCT GACGGTGTCA TAATTGCAGC TGATAAACAA	60
	GTTGATCTGT CCCGATTTGT TGGTAAACGG TTGATTAATG AAAATGTTCG CGAAGGGATT	120
20	CATAATCCGA GAGGTCTAAT TCAACGTATC ATTAATCAAG ATGCGCCTAT TTATCAATCT	180
	GAAACAAATT ATCATTCGAA AGATCGCGGT AAGTCTAAAA ATGGTATTCA AATGGTGTAT	240
25	CAACATTTAA TGAACGGTGT ATCGTTTATG GTTCCTTTTA TCGTAGTTGG TGGACTCCTT	300
	ATCGCCATCG CGCTGGACTC TAGGCGGTGA ACGACATCAA AAGGATTAGT CATCCCAGAT	360
	GGATTCATTT TGGGAAATCC ATTGGAAAAC ATTGGGTAGT	400
30	(2) INFORMATION FOR SEQ ID NO: 3658:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 668 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3658:	
40	GAAGAAGTTT ATGAAACGGT TATGAATAAG CCATACACTA GATATCCAGT GTACGAGGGA	60
	GATATTGATA ACATTATTGG GGTGTTTCAT TCTAAATATC TGTTGGCTTG GAGTAATAAA	120
	AAAGAAAATC AAATTACAAA CTATTCAGCT AAGCCATTAT TTGTGAATGA ACACAATAAA	180
45	GCTGAATGGG TATTACGTAA GATGACTATT TCTAGAAAAC ATTTAGCAAT TGTGTTGGAC	240
	GAATTTGGTG GTACTGAAGC GATAGTGTCA CATGAAGACT TAATTGAAGA ATTATTAGGT	300
50	ATGGAAATTG AAGATGAGAT GGATAAAAAG GAAAAAGAAA AACTTTCTCA ACAGCAAATT	360
	CMATTTCAAC AACGGAAAAA TCGCMACGTA TCTATATAAG GNGCGAACAG CTATGTGGTA	420
	ATAAGAATCG ACTTACTCAA ATGTTAAGTA TTGAATATCC AATTATACAA GCAGGTATGG	. 480
	, ,	

	TAGGCGCGGT TACTTTAATA CGCAGCAATT GGAAGATGAA ATAGATTATG GTACGCCAAT	600
	TAACGTCAAA TTCTTTTGGC GTAAATGTCT TTGGTACCAA GTCAACAATC ATATACCAGT	660.
5	AGTCAAAT	668
	(2) INFORMATION FOR SEQ ID NO: 3659:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3659:	
	AAAAGAATGG TAAGTTGAAT AAAGTATTGA AATCAATTGC CAATATCTTT ATACCGTTGA	60
20	TTCCTGnATT TATTGGAGCT GGATTAATTG GTGGTATTGC AGCAGTACTG AGTAACTTAA	120
	TGGTGGCAGG CTATATTTCA GGTGCTTGGA TTACGCAACT TATAACAGTA TTTAATGTCA	180
	TTAAAGACGG TATGTTAGCA TACTTAGCTA TTTTCACTGG TATTAATGCG GCTAAAGAAT	240
25	TTGGTGCGAC ACCAGGACTT GGTGGCGTGA TTGGTGGTAC AACGTTATTA ACGGGTATTG	300
	CTGGTAAAAA TATTTTAATG AATGTCTTCA CTGGAGAACC ATTGCAACCT GGACAANGTG	360
	GGATTATTGG CGTTATTTTG CCGTTTGGAA TTTAAGTAAT	400
30	(2) INFORMATION FOR SEQ ID NO: 3660:	•
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3660:	
	CTGAGCTAAT GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GAACCCCCAA CCTACTGATT	60
	ACAAGTCAGT TGCTCTACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG	120
45	AATGACGGGT TCGAACCGCC GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT	180
	AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTCGGACT	240
	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	300
50	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	360
	GTGATTTTGn TTTCGCAAAA CATTTATTTT GGATTAAGTC	400

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3661:	
10	TGATGTTTGA TTAGCTCATA AATACTAAAT AATGTTTGTA ACTTATAGTT ACGTTTTTTG	60
	GAATTAACGT TGACATATTG TCATTCAGTT TTCAATGTTC ATTTTTCTTA CCGACAAGAA	120
	TTAATTATAC ATTTTATTAA CATTTAAGTC AATAACTTTT TTTATCTTGT CCATTTTATT	180
15	TTTTAACCAA AATTTGATTA AAAAACTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	240
	TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	300
20	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA	360
	AGTAAAAGTG ATTTTGCnTC GCAAACATTT ATTTTGATTA	400
	(2) INFORMATION FOR SEQ ID NO: 3662:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 742 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3662:	
	CGCTCAACGT CTGCCTTCGT AATGGCTTTT GTAGAAATTC TAACTAAATA ATTTCGAATG	60
<i>35</i>	CTATCATTGA TTGTTTCAAC AGCTTGATGC TTTTGTTCAA GCTTTTTGAT CAATTTTTTA	120
	TCGTCTTTTG TAATTTCGCG AATGTCTTCA AACATTGATA AGACAATCTG ACCCACATTT	180
40	TGTAATTCTT TTTGAGTTTC TTGTAATGCA ACACCAGGTG CGTGATAAAC AAGATCTTTG	240
	TTTAAGTGCT GAGGTTTATA GTCATCAGCA ATATCTTTAC CTGGGACAAG CTTTGTAACA	300
	ATCCATGCTA AACCTGCTAC AAATGGTAAT TGAATCAAAG TATTTGTTAT GTTGAAGATA	360
45	CCATGTGATA CTGCAATCGT CATCGCTGGT TTTAAGTGCC ATAAATCTTG TAACAAACTA	420
	ATCAAATGAA TCACAACTGG CAAGAAAATT GTGAAGATAA TTACCCCGAT TAAGTTAAAG	480
	ATGACGTGTA CAAGCGCCGC ACGTTTTGCA GCGATTGAGC CGGCTAAACT AGCTAAGATA	540
50	GCTGTAATCG TGGTACCAAT GTTATCGCCT AGLAACACAG GGATKGCTGC GTTTAAGCTA	600
	ATTAAATCTT GTTGATAAAA TTCTTGTAAA ATACCAATCG TCGCACTTGA ACTTTGAACT	660

	AGCATTAAAT TGGCTTnAAA TC	742
	(2) INFORMATION FOR SEQ ID NO: 3663:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,,,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3663:	
15	ATGAATTCAA GCTTATTTAA AACTCTTTAT TCACTCGGTT TTGCTTGGTA AAATCTATAT	60
	TTTACTTACT TATCTAGTTT TCAATGTACA ATTTCTTTTT AGTCAAGCGC TCGCATACTG	120
	CTTTATTTTC AAAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT AATTTTCTT	180
20	AATGCATTGT CTAACAACCG CTTTCTTTAA AAAGAATAGA TTGTCAAGCG CTCGCATAAG	240
	CAATATCACT TTAACCAAAA AATATTTGAA TGTTAAATAA ACATTCANAA CTGAATACAA	300
	TATGTCACGT NATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT TAGAAAGGAG	360
25	GTGATCCAGC CGCACCTTCC GATACGGGCT ACCTnGTnAC	400
	(2) INFORMATION FOR SEQ ID NO: 3664:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 636 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3664:	
	AACTAATAGT TCACTTTTAC TTTTTTCTTT TTCATTATTA TCCATTATTT TTTCACCGCC	60
40	AAAACGAATT TCATGATGTT AATTTAAATG TTCTATGACA AAATTAAGCA ACGATGTTET	120
	ATATTTATTT CCAACTATGT CTAGATTAAA TTTCTAAAAA TAKACATCAT TTAAAAGGAG	180
	CTTGGGACAT AAATCAATGT CCTAGGGTCT ATAATATTAT AKTGCTAGTA GTTGACTGAA	240
45	TGAAAATGCG CTTGCAACAA GCTTTTTTCA ACTCTAGTCA GGGGCCCCAA CACAGAGAAT	300
	TTCGAAAAGA AATTCTACAG GCAATGCGAG TTGGGGTGTG GGCCCCAACA CAGAGAATTT	360
	CGAAAAGAAA TTCTACAGGC AATGCGAGTT GGGGTGTGGG CCCCAACACA GAGAATTTCG	420
50	AAAAGAAATt CTACAGGCAA TGCGAGTTGG GGTGTGGGCC CCAACATAGA GAAATGGATT	480
	CCCARTTTCT ACAGACAATG CAAGTTGGCG GGGCCCCAAC ACAGAAGCTG ACGAAAAGTC	540

	TACAATAATG nGCAAGTTGG CGGGGnCCCC AACACA	636
	(2) INFORMATION FOR SEQ ID NO: 3665:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 404 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3665:	
15	TATCATTTCC TGTTGCTAAA ACAACAGCAT GTATGCCATT CATAACACCT TTATTATGTG	60
	TTGCTGCACG ATGAATATCT ACTTGGGCCA ATACAGAAGC ACGTTCCATT CGTTTGGCAA	120
	CCTCTTCTCC AGTTCTCTCG CCCCTTGCTA AATCTTTAAC ATCAATTTCG CCTTGAACTT	180
20	TAACAACGGA CGCTGTTGCA TGATTGGATA AAATACTCAT TAAAATGTCG CTTTGGGAAA	240
	TCATTTTT AAAAATGCAG TTATGGCCTC TAAAATCGTA TTAAGCATAT TAGCGCCCAT	300
•	AGCATCTTTC GTATCAACAA ATACTTTTAA AGATAGTAAC TGTTGCTCAG GTAATGTAKC	360
25	MATCGCTATA CGTTGGTAAC CACCACCACG CGCTTTAATA GGAA	404
	(2) INFORMATION FOR SEQ ID NO: 3666:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3666:	
	GTGGTTCCAG TAGCAATTAT TGAACGATAT TAGGCTATCT AGTCGGCATA TTTGTAAAAC	60
40	AAGATCCAAT TAAATATCAA CAGGAATAAC GAATAATATA AAAGAGGTTG GGACATAAAT	120
	CCCTAAAAAA ACAGCAGTAA GATAATTTTC AATTAGAAAA TATCTTACTG CTGTTCTCTA	180
•	TTTATACAAT ACTTCGTATT GAATGGCTTC GCTTTCCTAG GGTGCCGTCT CAGCCTCGGT	240
45	CTTCGACTGG CACTGCTCCC TCAGGAGTCT CGCCATTAAT ACTACGTATT AACGTGTAAT	300
	TTTACTTTGA AATACTTTAA AAAAATAAGA CACTTTGCCC AACTTGCACA TAAATGTAAA	360
	ATTCAATAAA ATAAATTTCT GTGTTGGATC CCTnCGTATA	400
50	(2) INFORMATION FOR SEQ ID NO: 3667:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3667:	
	CCAACAAATC TGTCTGTCGC ATCGCCTTTG TCGTTCCAAA TAAATATGTA CAAACGAATC	60
10	CACCAGCATA CGCCCCAAGT AATCCTGCAA TATAACCTAA ATACATATTA TCTGAGATTA	120
	ATGGTAATAG TGACACCA CTTGGGCCTA TTGCTTTGGC ACCAATATGT CCAATTCCAC	180
. *	CTATTACAGC GCCACCAATA CCACCACCAA TACAAGCAGT TAAGAAAGGT CGACCTAATG	240
15	GCAAAGTCAC ACCATAGATT AATGGTTCTC CGATACCTAG GGAAACCAAC TGGCAATGCA	300
	CCTTTTAAAG TATTACGTAA TGTTGTGTTG CGGTTTACAT CTTACCCAAA GTGCTAATGC	360
20	GGGCACCTAC TTGGTCCCAG CACCAGCCAT CGCTGCAATT	400
	(2) INFORMATION FOR SEQ ID NO: 3668:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3668:	
	ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG CTATGTATTC ACATATCGAT	60
35	AACATGACAT AACTCATGAC TGGGTTTCCC CATTCGGAAA TCTCTGGATC AAAGCTTACT	120
	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT AGTGCCAAGG	180
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA TCCTACAGGA AACGCGTTAT	240
40	TAATCTTGTG AGTGTTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT	300
	AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT ATTTTACTTA CTTATCTAGT	360
	TTTCAATGTA CAATTTCTTT TTAGTCAAGC GCTCGCATAA	400
45	(2) INFORMATION FOR SEQ ID NO: 3669:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3669:

	GAGCGCTACT TACTGGnAGG CGCTGGTGGG ATACTACCCT AGCTGTGTTG GCTTTCTAAC	120
	CCGCACCACT TATCGTGGTG GGAGACAGTG TCAGGCGGGC AGTTTGACTG GGGCGGTCGC	180
5	CTCCTAAAAG GTAACGGAGG CGCTCAAAGG TTCCCTCAGA ATGGTTGGAA ATCATTCATA	240
	GAGTGTAAAG GCATAAGGGA GCTTGACTGC GAGACCTACA AGTCGAGCAn GGTCGAAAGA	300
10	CGGACTTAGT GATCCGGTGG TTCCGCATGG AAGGGCCATC GCTCAACGGA TAAAAGCTAC	360
,,	CCCGGGGGAT AACAGGCTTA TCTCCCCCAA GAGTTCACAT	400
	(2) INFORMATION FOR SEQ ID NO: 3670:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3670:	
25	ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATCTTTC	60
	TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAA AGAGACCTTG CGGTCTCAAT	120
•	GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG	180
30	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC	240
	CTTGCTATAG TCACCAGACA TATGAATGTA AATTATACAT TCAAAACTAG ATAGTAAGTA	300
	AAAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT CTTCCGATCG ATTAGTATTC	360
35	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCCGAACCT	400
	(2) INFORMATION FOR SEQ ID NO: 3671:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		e.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3671:	
	CACCCGAAGA TATTGCTCAG ACAAAGTCAT CATATACAGG AAAGTATTTA AAAGAAGTAC	60
50	TTGAACGAGA TAAACAAAAT ACTGAAGATA AATAAGATTA AAAGAAGTGA AGGATGTTAT	120
	AAATTTATCC TTCGCTTCTT TTTATTAATT TAGTAATGAA TAGTAGAAAG AAAAGATGCG	180
	TAAAAAGAAT TATGTTAAGA TAGGGTCAAT CTAGAGTAGT TAAACATAAA TCGAACTGGG	240

	TTAGCCACAG CTATTGTGTA CTTAAAAATA GGAATGCATG AGTGCACCNA NAGGNAGAAT	360
	ACTAATTTCC AAAGAAAAG TATTCCTTAT GTTGGGGCCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3672:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3672:	• .
	TGGACCTGTA AAAGGAGACT CGATTGTAGA AAAAGAAGAG ATTCCATTCG AGAAAGAACG	60
	TAAATTTAAT CCTGATTTAG CmCCaGGGAC aGAAAAAGTA mCmAGaGAAG GACaAAAAGG	120
20	TGAGAAGACA ATRACGACAC CAACACTAAA AAATCCATTA ACTGGAGTAA TTATTAGTAA	180
	AGGTGAACCA AAAGAAGAAA TCACAAAAGA TCCGATTAAT GAATTAACAG AATACGGACC	240
	AGAAACGATA ACACCAGGTC ATCGAGACGA ATTTGATCCG AAGTTACCAA CAGGAGAGAA	300
25	AGAAGAAGTT CCAGGTAAAC CAGGAATTAA GAATCCAGAA ACAGGAGACG TAGTTAGACC	, 360
	ACCGGTCGAT AGCGTAACAA AATATGGACC TGTAAAAGGA GACTCGATTG TAGAAAAAAGA	420
30	AGAGATTCCA TTCAAAACGT AAATTTAATC CGGATTTAGC A	461
	(2) INFORMATION FOR SEQ ID NO: 3673:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3673:	
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	60
	TATTTTACTT ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA	120
45	ACCGCTGACC TCCTGCGTGC AAAGCAGGCG CTCTCCCAGC TGAGCTAAGC CCCCAAANAG	180
	GTATTAAATT AATGGGGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC TTATCAGGCG	2,40
50	TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTAATTTGAA TGAACAAACA TTCAAAACTG	300
	AATACAATAT GTCACGTTAT TCCGCATCTT ChGAAGAAGA TGTTCCGAAT ATATCCTTAG	360
	AAAGGAGGTG ATCCAGCCGC ACCTTCCGAn ACGGCTACCT	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3674:	
	ACATGAAGAC TTAATTGAAG AATTATTAGG TATGGAAATT GAAGATGAGA TGGATAAAAA	60
	GGAAAAAGAA AAACTTTCTC AACAGCAAAT TCAATTTCAA CAACGGAAAA ATCGCAACGT	120
15	ATCTATATAA GGAGCGAACA GCTATGTGGG AATAAGAATC GACTTACTCA AATGTTAAGT	180
	ATTGAATATC CAATTATACA AGCAGGTATG GCAGGAAGTA CGACACCGAA ATTAGTTGCA	240
	TCAGTAAGTA AACAGTGGTG GGTTAGGCAC AATAGGCGCG GTTACTTTAA TACGCGCCAA	300
20	TTGGANGATG GANATNGATT ATGTACGCCA TTAACGTCAA ATTCTTTTGG CGTAAATGTC	360
	TTTGTACCAA GTCAACAATC ATATACCAGT AGTCCAAATT	400
	(2) INFORMATION FOR SEQ ID NO: 3675:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3675:	
<i>35</i> ·	AGCTAGGCCG GCAATATGTA AGAATAAATG GTGGAGAATG ACGGGTTCGA ACCGCCGACC	60
	CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT CTCCGATTTA AAACTGCCTG	120
_	GCAACGTTCT ACTCTAGCGG AACGTAAGTT CGACTACCAT CGACGCTAAG GAGCTTAACT	180
40	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAAACATTTA	300
45	TTTTGATTAA GTCCTCGTCG TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT	360
45	CGGACCTATT AACCTCATCA ACCTTGAGGG nTCTTATAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3676:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3676:	
	TGGACAATGG TAGGAGAGCG TTCTAAGGGC GTTGAAGCAT GATCGTAAGG ACATGTGGAG	60
5	CGCTTAGAAG TGAGAATGCC GGTGTGAGTA GCGAAAGACG GGTGAGAATC CCGTCCACCG	120
	ATTGACTAAG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC CTAAGCTGAG	180
10	GCCGACAGCG TAGGCGATGG ATAACAGTTG ATATTCCTGT ACCACCTATA ATCGTTTTAA	240
,,,	TCGATGGGGG GACGCATAGG ATANGCGAAN GTGCGATTGG ATTGCACGTC TAAGCAGTAA	300
	GGCTGAGTAT TAGGCAAATC CGGTACTCGT TAAGGCTGAG CTGTGATHGG GAGAAGACAT	360
15	TGAGTCTTCG AGTCGTTGAT TTCACACTGC CGAGAAAAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3677:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3677:	
÷	AAAGCGCCAC ATGGTGCCAA GTCTGGAGTT AATCCAGCAA TTGCTTGTTT TAAGCTATTA	60
30	TATTTTTCTT CTACTTTTGT TTTTTCTGCG GCAATTTGTT GGTCAGTCGC ATCACCATTG	120
	TTAATAACAT TTTGTGCATT TGTTGATTCT GTTTGACCCG CACGTTTAGC ATTTTCATAT	180
	GCTTGGATTG ATGATTGTGT CATACCATCA GTAGTTACTG ATTTATTGAT TTCTTCATCA	240
35 -	AGTTTCGTCT TAGCAGTTTT TAAAGCACTA TTATCAGCTA AAGGTACTAA TTGGATTAAT	300
	TGCTTGCGTT AATCGCTCAT TGACACGATT TACATTTGTT AACGCAGATT GCACTTCTTG	360
•	TACTGTTCTT AATGGGCTTT TGGAATAATA GCATTAGCGC	400
40	(2) INFORMATION FOR SEQ ID NO: 3678:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 648 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3678:	
	ACAGTCAATT GNTCTACCAA TTGAGCTAGG CCGGTTAAGA AATGGTTCCA GGACAGAGTC	60
	GAATGCCGAC ACATGGAGCT TCAATCCATT GCTCTAACCA ACTGAGCTAC TGAACCATAA	120
	·	

	AGGCGTGTTA ACCGCTACAC TACGAGACCT ATAAAATATT GCGGGAGGCG GATTTGAACC	240
	ACCGTACTTC GGGTTATGAG CCCGACGAGC TACCGAACTG CTCCATCCCG CGATAATAAA	300
5	AAATAATGGC GGAGGAAGAG GGATTCGAAC CCCCGCGGCC CGTTAAGGCC tGTCGGTTTT	360
	CAAGACCGAT CCCTTCAGCC GGACTTGGGT ATTCCTCCAT TATTATAGGT AAATCGCTAT	420
10	TAATTATAAA ATTAAATGGC GGTCTCGACG GGAATCGAAC CCGCGATCTC tGCGTGACAG	480
	GCAGGCGTGT TAAYCGCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	540
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGGACTT	600
15	GGGGTATTCC TCCAAAATTA TATGGGACCT TGCAGGACTC GAACCTGC	648
	(2) INFORMATION FOR SEQ ID NO: 3679:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3679:	
•	CTGATCCCGT TGTGCTTCAC ACCCGATAGA TAGGGATTTA CAGATAAATT CAGGTCTCTT	60
30 .	CCACGTCATA TTTGGACCCA TCGAAAATTC GGGTTCTCAA ATCATCGAAC ATAACAAAAG	120
	AAGCTAAGCA ACATGTAGGC CGTTGTCACT TAACTTCTTG TTTTTCCGAT GACAGCTTCT	180
	ATTTAGAGAA TGTCATGATT ATTTTATATT CACTTCAATG TTATCAATAT TAGTGCCATC	240
35	TATGACATCT GCCATGCGAT TTTCTTGTAA TTTTTTGTGC AATTCAAACG TGTACTTTCC	. 300
	ACCGTTTTC ATTTTAATAA CAATTTTACC TGAACCAACG TTACCGTACA GATTATTTTT	360
	TTCAATAAGT TGTTTTCTCA ATTTAAAATC AAGTTCTTTC	400
40	(2) INFORMATION FOR SEQ ID NO: 3680:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3680:	
•	TCAATGCGGC TCATCGCATT CATTTCTTGT CTAGCAACGT TCTACTCTAG CGGAAnTAAG	60
	TTAGCTACCA TCCTCGCTAA GAACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT	120

	TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTATT	240
_	TTGACGTTTT AGACATAAAA AAAGAGACCT CACGGTCTCA ACTTGCCTGG CAACGTTCTA	300
5	CTCTAGCGGA AGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC TTGTGACAAT	360
	CGCTTGGCTT CTnTCCTCTC CTTCGGnTCT CGGCTTACTC	400
10	(2) INFORMATION FOR SEQ ID NO: 3681:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3681:	
20	TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	60
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTAC	120
25	TTTTTATTTT GACGTTTTAG ACATAAAAAA AGAGACCTCA CGGTCTCAAC TTGCCTGGCA	180
25	ACGTTCTACT CTAGCGGAAC GTAAGTTGGC TACCATCGTC GCTAAAGACC TTTCTTGACT	240
	TGTGACAATC GCTTGCTTCT TTCCTCTCCT TCGGCTCTCG CTTACTCATT TAGCTCTACT	300
30	AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA	360
	TTTTTCTTTG TGGTTTACTT TTTATTTTGA CGGTTTAGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3682:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3682:	
45	TTGAACATGT TGAATCTAAT GAAATTCTTG TTCGTCGTCT AGTTGAAGAG AACGGCGTTG	60
40	AGCATGAAGG TGAATTAGAT CGCTATCCAT TAGCTAAATT TAAACGTTCA AACTCAGGTA	120
	CATGTTACAA CCAACGTCCA ATCGTTGCAG TTGGAGATGT TGTTGAGTAT AACGAGATTT	180
50	TAGCAGATGG ACCATCTATG GAATTAGGAG AAATGGCATT AGGTAGAAAC GTATAGTTGG	240
	TTTCATGACT TGGGACGGTT ACAACTATGA GGATGCCGTT ATCATGAGTG AAAGACTTGT	300
•	GAAAGATGAC GTGTATACTT CTATTCATAT TGAAGAGTAT GAATCAGAAG CACGTGATAC	360

(2) INFORMATION FOR SEQ ID NO: 3683:

	(i) SEQUENCE CHARACTERISTICS:	
5 '	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOBOSI: Timeal	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3683:	
	TTGGAATTTC TCCGCTACCC TCAGTTCATC CGCTCACTTI TCAACGTAAG TCGGTTCGGT	60
	IIOGAMIIIC ICCGCIACCC ICAGIICAIC CGCICACIII ICAACGIAAG ICCGIICGGI	00
15	CCTCCATTCA GTGTTACCTG AACTTCAACC TGACCAAGGG TAGATCACCT GGTTTCGGGT	120
		180
	CTACGACCAA ATACTAAACG CCCTATTCAG ACTCGCTTTC GCTACGGCTC CACATTTACT	180
	GCTTAACCTT GCATCAAATC GTAACTCGCC GGTTCATTCT ACAAAAGGCA CGCCATCACC	240
00		
20	CATTAACGGG CTCTGACTAC TTGTAAGCAC ACGGTTTCAG GTTCTATTTC ACTCCCCTTC	300
	CGGGGTGCTT TTCACCTTTC CCTCACGGTA CTGGGTTCAC TATCGGTCAC TANGAGAGTA	360
	TTTAAGCCTT AMGAGATGGT CCTCCCAGAT TCCCGACGGG	400
25	(2) INFORMATION FOR SEQ ID NO: 3684:	
	(2) INFORMATION FOR SEQ 1D NO. 3004.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 528 base pairs	,
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 23322	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3684:	
<i>35</i>	(XI) DEGELECT DESCRIPTION. DEG ID NO. DOOL.	
	GATHTATGAT GAAAAACTAT CTGACTGCTG TTTCACTTTT TATAAGACTT CTGAATGTCT	60
	TCACTTATAC TTCTAGTCAC AGATTMAAAT AATCAAAAGT GCACATTATT AAAATATCAA	120
	TCACTTATAC TTCTAGTCAC AGATTMAAAT AATCAAAAGT GCACATTATT AAAATATCAA	120
40	TTTCACACTC AATGCGGCTC ATCGCATTCA TTTCTTGTCT AGCAACGTTC TACTCTAGCG	180
-		242
	GAACGTAAGT TAGCTACCAT CCTCGCTAAG AACCTTTCTT GACTTGTGAC AATCGCTTGC	240
	TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC TACTAAACTC GTTGCGCTCT	300
45		
	TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC TTTGTGTTTA	360
	CTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTC ACGGTCTCAA CTTGCCTGGG	420
	CITITIATIT TONCOTTITA GACATAAAA AAAAAACCTC ACGGTCTCAA CITGCCTGGG	
50	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG TCGCTAAAGA CCTTTCTTGA	480
30	AND AND AND ADDRESS OF THE CONTRACT OF THE CON	
	CTTGTGACAA TCGCTTGCTT CTnTCCTCTC CTTCGGCTCT CGGTTACT	528
	(2) INFORMATION FOR SEQ ID NO: 3685:	
	· · · , · · ·	

` <i>5</i>	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3685:	
10	AAATTATGGT CGATTGCGAA TGATTTAAGA GGGANCATGG ATGCGAGTGA ATTCCGTAAT	60
	TACATTTTAG GCTTGATTTT CTATCGCTTC TTATCTGAAA AAGCCGAACA AGAATATGCA	120
	GATGCCTTGT CAGGTGAAGA CATCACGTAT CAAGAAGCAT GGGCAGATGA AGAATATCGT	180
15	GAAGACTTAA AAGCAGAATT AATTGATCAA GTCGGTTACT TCATTGAGCC ACAAGATTTA	240
	TTCAGTGCGA TGATTCGTGA AATTGAAACG CAAGATTTCG ATATAGAGCA TCTAGCGACG	300
	GCGATTCGCA AAGTTGAAAC ATCTACATTA GGTGANGAAA GTGAAAATGN CTTTATCGGG	360
20	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGGCTAGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3686:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3686:	
•	TTAAATTATT GGTCTATCGG TTCTTGGGGT GGCCATGGTA TCTGTTCACT CTTCGGTGGT	60
<i>35</i>	GCAGTTGCGA CAACTATGGG TTGGAGATGG ATTTCATCT TCTCAATTAT CGTTGCCGTA	120
	CTTTCAATGT TACTCATCAA AGGGACGCCT GAAACGAAAT CAGAAATTAC CAATACACAT	180
	AAATTTGACG TTGCAGGGCT AATTGTTCTA GTAGTTATGT TGCTAAGTTT AAACGTTGTC	240
40	ATTACTAAAG GTGCAGCACT TGGTTACACA TCATTATGGT TCTTTGGTTT GATTGCAATC	300
	GTAATTGTAG CATTCTTAT TTTCTTAAAT GTTGAGAAAA AAGTAGATAA TCCACTTATT	360
45	GATTTTAAAT TATTGAAAAT AAACCATATA CAGGTGCAAC GGT	403
	(2) INFORMATION FOR SEQ ID NO: 3687:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TATGAGCCCG ACGAGCTACC GAACTGCTCC ATCCCGCGAT AATAAAAAAT AATGGCGGAG	60
	GAAGAGGGAT TCGAACCCCC GCGGCCCGTT AAGGNCCTGT CGGTTTTCAA GACCGATCCC	120
5	TTCAGCCGGA CTTGGGTATT CCTCCATTAT TATAGGTAAA TCGCTATTAA TTATAAAATT	180
	AAATGGCGGT CTCGACGGGA ATCGAACCCG CGATCTCCTG CGTGACAGGC AGGCGTGTTA	240
	ACCGCTACAC TACGAGACCA TTAGTAAAAC GGAGGAAGAG GGATTCGAAC CCCCGCGAGC	300
10	CGTTAAGCCC CTGTCGGTTT TCAAGACCGA TCCCTTCAGC CGGACTTGGG TATTCCTCCA	360
	AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTATGAGC CGTAGCnCTA	420
15	ACCACTGGGC TAAAGTCCTA ATATAATTT	449
	(2) INFORMATION FOR SEQ ID NO: 3688:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3688:	
	AAAACGTCGT AATATGCAAA TTGAAGGTGC CAAGGTTGTT ATTCAAGGTT TCDATAATGC	60
·	CGGAAGTTTC TTAGCTAAAT TCTTATATGA TTTAGGTGCA AAAATTGTAG GTATCTCTGA	120
30	TGCTTACGGT GCATTACACG ATCCAAATGG CTTAGATATA GATTATTTAT TAGACCGTCG	180
	AGATAGTTTT GGTACGGTAA CAAATTTATT TGAAGAAACA ATCTCAAATA AAGAATTGTT	240
35	TGAATTAGAT TGTGACATTT TAGTACCAGC GGCTATTTCA AACCAAATTA CAGAAGACAA	300
	TGCACATGAT ATTAAAGCTA GTATCGTTGT TGAAGCTGCT AATGGACCTA CAACACCAGA	360
	AGCAACACGT ATTTTAACTG AACGTGGTAT ATTATTAGTT	400
40	(2) INFORMATION FOR SEQ ID NO: 3689:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	,	
50,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3689:	۰.
•	CACGCTTATC AGGCGTGCGC TCTAACCAGC TGAGCTATAG GCCCATTAAT TTGAATGAAC	320
	AAACATTCAA AACTGAATAC AATATGTCAC GTTATTCCGC ATCTTCTGAA GAAGATGTTC	120

	CGACTTCACC CCAATCATTT GTCCCACCTT CGACGGCTAG CTCCTAAAAG GTTACTCCAC	246
	CGGCTTCGGG TGTTACAAAC TCTCGTGGTG TGACGGGCGG TGTGTACAAG ACCCGGGAAC	300
5	GTATTCACCG TAGCATGCTG ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT	360
ı	TGCAGACTAC AATCCGAACT GAGAACNACT TTATGGGGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3690:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 553 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CROUENCE PROCEDURED CO. TO NO. 2000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3690:	
20	GCnGCGTTTT AGGCCCATTC GGTTACCCCC nTTCCATAAA TGGTGCCCGG CCAGAGGACT	60
	TGAACCCCCC AACTTACTGA TTACAAGTCA GTTGCTCTAC CAATTGAGCT AGGCCGGCTA	120
	AGAAATGGTT CAGGACAGAG TCGAACTGCC GACACATGGA GCTTCAATCC ATTGCTCTAC	180
25	CAACTGAGCT ACTGAACCAT AATAAAAATG TAATGATGGC GGTCTCGACG GGAATCGAAC	240
	CCGCGATCTC tGCGTGACAG GCAGGCGTGT TAACCGCTAC ACTACGAGAC CTATAAAATA	300
	TTGCGGGAGG CGGATTTGAA CCACCGACLT CGGGTTATGA GCCCGACGAG CTACCGAACT	360
30	GCTCCATCCC GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC	420
	CCGTTAAGGC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	480
	ATTATTATAG GTANATCGCT ATTAATTATA ANATTAAAAT GGCGGTCTCG ACGGGAATCG	540
35	AACCCGCGGA TCT	553
	(2) INFORMATION FOR SEQ ID NO: 3691:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3691:	
	TCAATGCGGC TCATCGCATC CATTTTTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	60
50	GTTGGCTACC ATCGACGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC	120
	TCTTCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT	180

	TTTGACGTTT TAGACATAAA AAAAAGAGAC CTTGCGGTCT CAATGCGGCT CATCGCATCC	300
	ATTTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGGACTAC CATCGACGCT	360
5	AAGGGAGCTT AACTTTCTGT GTTCGGGCAT GGGGAACAGG	400
•	(2) INFORMATION FOR SEQ ID NO: 3692:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3692:	
	TCGAATACTG TCATGAAGTA ATTTCTCTAT TCTACGACCA GAAAATACAG ATTGAGTATA	. 60
20	TGCATATAAG ATGTTTTTAA CATCATTTTT GGATGATAGG ATGTTGCACC ACGATGATGT	120
	CTGAATTCAT CGAATTCCTA TCAGGTATCG TTTCAACAAT TTCATTAACA TATCGCGAAA	180
,	TATCATTTTG AGAATTCTAA CGARTTTCCT ATTGGTAGTG TAAGTTGGGG TCATGTTATA	240
25	ATTITTATAC ATAAGGCACC TCTTTAATTT AGTTTAGTAG TATITTATAA ATTATACGAG	300
	GGACCCAACA CAGAAAATTC ATTTTATTGa ATTTTACATT TATGTGMCAA GTTGGGAAAA	360
	ATGTCTTATT TTTTCAAAGT ATTTAAAAGT AAAATTACAT GTTAATACGT	410
30	(2) INFORMATION FOR SEQ ID NO: 3693:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3693:	
	ACTICATATA ATTIATGAAA TAAACCIGIC AATTIIGGAI IGAITAIGCI IIGIGAITCI	.60
	TTTTATTTCT GCGTAATAAC GCTAAACCTA AAATGCTAAA TAATCCGCCG AACAACATGC	120
45	CGTTGTTTGT TGATTCTTCT CCACCTGTTT CAGTAGTTCA GATTTCTTAG ATTGTGCTTT	180
•	TTTAGTTGGT ACCACTGCTT TAACCTTTTC ATTGATTTCA ATAACAGGTG TTACTACTTT	240
	ACCTTGTTCC ACTGGTTTAG AAGGTTTTTT AGGTTCTTCT TTAGCAGGTG GTaTTGGTTT	300
50	ACCAGGTTCA GTTGGTACCT CTGGCGTTGG CGGTGTTGGT GTTTCCGGCT CGCTTGGTAC	360
	TTCTGGTGTC GGTGGTGTTG GGTGTTTNCC GGCTTCGCTT GGTACTTCTG GGTGTTCGGT	420

(2) INFORMATION FOR SEQ ID NO: 3694:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
10		
,,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3694:	•
	GCATCGTTGC CTTGGTAAGC CGTTACCTTA CCAACTAGCT AATGCAGCGG GAGTCCATCT	61
15	ATAAGTGACA GCAAGACCGT CTTTCACTTT TGAACCATGC GGTTCAAATn ATTATCCGGT	120
	ATTAGCTACG GTTTCCCGAA GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC	180
	ACCCGTCCGC CGCTAACATC AGAGAAGCAA GCTTCTCGTC CCGTTCGCTC GACTTGCATG	240
20	TATTAGGCAC GCCGCCAGGT TCCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG	300
	ATGTTTGATT AGCTCATAAA TACTAAATAA TGTTTGTAAC TTATAGTTAC GTTTTTTGGG	360
	AATTAACGTT GGACATATTG TCATTCCAGT TTTCAATGTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3695:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3695:	
35	ACCTAATATA TAGACAGGTT CATCACTTAA TGACTTTGCA AGTTCGGCAA TGTCCTGTGC	60
	GTCGCGTTTG ACACGATAAT CACTGTCAGG GTTTGAAGCG GAATCAGGGA GTGGTTCAGT	120
40	TAACTCGCTT TCTCCATAAT CACGACGATC AACGGCTACA ACAGTAAAAT GGTCTTTTAA	180
÷	CTGTTCTGCA AGAGGCAGAA AAATGTCTCC GGTACCGTTT GCACCAGGAA TAAAGATGAG	240
	CACGGGTCCT TGTCCGACTT GGTGGTATCG TAATTTAGCG CCTTGTAATT CTAAAGTTTC	300
45	CATATTCAAT GACCTCCATT TGTTAATTGT TAGGTGATAA ACCTAATAAT TTAGCACCAT	360
	TTGGTATAAC TTAATTTCNC CTTTTCCTTC ATCNGGTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3696:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3696:	
5	TTCTTTCTCT TCCTCCGGGT ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG	60
	CTATGTATTC ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT	120
	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	180
10	TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC	240
	CATITITATA AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT	300
. *	ACATAAGTAA ACTCTGCTTT AAAATAATTT AACTCATTGT CTGCTAAACG TTTTCTTTTA	360
15	TAAAAAGATT TAAACGCGTT GATTAAnCTG TGAGTGTTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3697:	1
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3697:	
	CACTTTAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATGTC	60
30	ACGTTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGATC	120
	CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCACC	180
	TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG	240
35	TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA	300
	TTACTANCGA TTCCANCTTC ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA	360
	CTTTATGGGA TTTGCTTGAC CTCGCGGTTT CGCTnCCCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 3698:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3698:	
	AAGGGAATCG AATTTTCTTT CTCTTCCTCC GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	60

	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTTACAGCT CCCCAAAGCA TATCGTCGTT	180
	AGTAACGTCC TTCATCGGCT TCTAGTGCCA AGGCATCCAC CGTGCGCCCT TAATAACTTA	240
5	ATCTATGTTT CCATCCTACA GGAAACGCGT TATTAATCTT GTGAGTGTTC TTTCGAACAC	300
	TAGCGATTAT TTCTTATGAA TTCAAGCTTA TTTAAAACTC TTTATTCACT CGGTTGTGCT	360
	TGGnAAAATC TATATTTTAC TTACTTATCT AGGTTTCAAT	400
10	(2) INFORMATION FOR SEQ ID NO: 3699:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3699:	
	TTTATGGCAT ACACGCATCA TAATACAGCC CAACACCACT AATGGTGCAG TTGCAAATCC	60
	AAATTCTTCC GCTCCAAGCG CACATGCGTA CGCTACATCT TTACCAGTTA ATAACTTACC	120
25	GTCTGTTTCT AACTTAACAC GACTTCTTAA GTCATTTAGT TTTAATGTTT GATGTGTTTC	180
	TGCTAAACCA ATCTCCCAAG GAACACCGGC ATGCTGAATA CTCGTTTTGG GTGAAGCCCC	240
	TGTANCACCA TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA	300
30	TGCAATGGTA CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT	360
	CGCATTTTC AAATCATGTA TCAGTTGCGC TAAATCTTCT	400
35	(2) INFORMATION FOR SEQ ID NO: 3700:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3700:	
45	CGACGTACCA TCGACGCTAA GGAGCTTAAC TTTCGTGTGT TCGGCATGGG AACAGGTGTG	60
	ACCTCCTTTG CTATAGTCAC CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG	120
	TAAGTAAAAG THATTTTGCT TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG	· 180
50	TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT	240
	TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTCMC GGGGGGCTTC ATGCTTAGAT	300

	GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA	400
٠	(2) INFORMATION FOR SEQ ID NO: 3701:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3701:	
	AACCAAGCCC AATAATGGAC TGGCCGCCTA ATAATAAAAG CTCTAAAAGT TGTATTTTAA	60
15	AAATAGTTCT TTAAATTATA TACCCACCAC ATTTGGTGGA GAACCTAAAA AAAAGCACTT	120
	CCCAAAAATG GAAAGTGCAA GTAGTGAGCC ATAGAGGATT CGAACCTCTG ACCCTCTGAT	180
20	TAAAAGTCAG ATGCTCTACC AACTGAGCTA ATGGCTCTAA TGGCTGGGCT AGCTGGATTC	240
•	GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG CTTGGCTATA GCCCAATATA	300
	TAGATGGTGG AGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGNTT TACAGTCCGC	360
25	CGCGTTTAGC CANTTCGNTA CCCCTCCAGN TTATTCATAT	400
	(2) INFORMATION FOR SEQ ID NO: 3702:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3702:	
	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	60
40	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTT ATTCTACCGC TGAACTACTT	120
40	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA AGGTTAGATC CTAAGTCTAG	180
	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	240
45	ACCCTCTGGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGGCTCT TCCATGGTGC	300
	CGGCCAGAGG ACTTGGAACC CCCAACCTAC TGGATTACAA GTCAGTTGGC TCTACCAATT	360
	GANGCTAAGG CCGGCAATAT GTTAAGNATN AATGGTGGAG	400
50	(2) INFORMATION FOR SEQ ID NO: 3703:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3703:	
	CAACTAATAA ATAGTGGCGG TGGAGGGGAT CGAACCCCCG ACCTCACGGG TATGAACCGT	60
10	ACGCTCTAGC CAGCTGAGCT ACACCGCCTT ATATAGTTTG TAAATAATAT GGTGGAKACT	120
	AGCGGGATCG AACCGCTGAC CTCCTGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAG	180
	CCCCCATAAT AATTACAGTA TATCGGGAAG ACAGGATTCG AACCTGCGAC CCCTTGGTCC	240
15	CAAACCAAGT GCTCTACCAA GCTGAGCTAC TTCCCGTATA ATTAACGCGC CCGATAGGAG	300
	TCGAACCCAT AAACCTCTTG ATCCGTAGTC AAACGCTCTA TCCAATTGAG CTAACGGGCG	360
	CATATGTTTT TAATTGAAAT GGTGCCCGAG GACCGGAATG	400
20	(2) INFORMATION FOR SEQ ID NO: 3704:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3704:	
30	CTAACGCCTA CGCGTTACAT GAAAAACGGA GAACAAGCAG AACAATTATT ACGTCAGCTT	.60
	ATAGAAAAG ATGAAGCACT AGCTAAGTAT GTCATGGTTT GTGATGAAAC AGCTTGGTGG	120
	TCATATATGG GTCAAGATAA TGATATTTTC AAAGATCAAT TAGGTCATCT AACTGTTCAG	180
35	CTAAGAAAGT ATCCCGAAGT GCTAGCCAAA AATGATACGC AACAGCTAGT GTCAATGGCA	240
40	GCACTCGCGG CAAATGATCG CACTTTATAT CAAATGATTT GTGGAAAAGA TAATATTTCT	300
40	AAAAATGATG TCATGACGTT ATTTGAAGAT ATCGCGCAAG TCTTTTTAAA GGTAACACTA	360
	TCATTTATGC AATACGGCGC ATTACCCAGA GTTGCATGGT	400
45	(2) INFORMATION FOR SEQ ID NO: 3705:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 478 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		

2651

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3705:

٠,	TGACGGGGAC CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC	120
	TTACCAAATC TTGACATCCT TTGACAACTC TAGAGATAGA GCTTTCCCCT TCGGGGGTAC	180
5	AAAGTGACAG GTGGTGCATG GTTGTCGTCA GCTCGTGTCG TGAGATGTTG GGTTAAGTCC	240
	CGCAACGAGC GCAACCCTTA AGCTTAGTTG CCATCATTAA GTTGGGCACT CTAAGTTGAC	300
10	TGCCGGTGAC AAACCGGAGG AAGGTGGGGA TGACGTCAAA TCATCATGCC CCTTATGATT	360
	TGGGGCTACA CACGTGCTAC AATGGACAAT ACAAAGGGCA GCGAAACCGT GAGTCAAGCA	420
	AATCCCATAA AGTTGTTCTC AGTTCGGATT GTAGTCTGCA ACTCGACTAC ATGAAGCT	478
15	(2) INFORMATION FOR SEQ ID NO: 3706:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3706:	
	ATCTTAAGTC TTTGGTGAAC CGTTTTGTAG AATTAAATAA TATTACAGAG CCGCTAGCAG	60
	TAACGATCCA AACGAATTTA CCACCATCAC GTGGATTAGG ATCGAGTGCA GCTGTCGCGA	120
зö	TTGCTTTTGT TCGTGCAAGT TATGATTTTT TAGGGAAATC ATTAACGAAA GAAGAACTCA	180
	TTGAAAAGGC TAATTGGGCA GAGCAAATTG CACATGGTAA ACCAAGTGGT ATTGATACGC	240
•	AAACGATTGT ATCAGGCAAA CCAGTTTGGT TCCAAAAAGG TCATGCTGAA ACGTTGAAAn	300
35	CTCAAAGTTT AGACGGCTAT ATGGTTGTTA TAGANACTGG TGTGAAAGGT TCACCAAGAC	360
	AAGCAGTAGA AGATGTTCCA TAAACTTTGG TGAGGACCCT	400
40	(2) INFORMATION FOR SEQ ID NO: 3707: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3707:	
50	GTCGAACTGC CGACACATGG AGCTTCAATC CATTGCTCTA CCAACTGAGC TACTGAACCA	60
	TAATAAAAAT GTAATnnTGG CGGTCTCGAC GGGAATCGAA CCCGCGATCT CCTGCGTGAC	120
•	AGGCAGGCGT GTTAACCGCT ACACTACGAG ACCTATAAAA TATTGCGGGA GGCGGATTTG	180
F.F.		

	TAAAAAATAA TGGCGGAGGA AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG	30
	GTTTTCAAGA CCGATCCCTT CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC	36
5	GCTATTAATT ATAAAATTAA ATGGCGGTCT CGACGGGAAT	40
	(2) INFORMATION FOR SEQ ID NO: 370B:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3708:	
	GTTCGCCCAT TAAAGCGGTA CCANGCTGGG TTCAGAACGT CGTGAGCANG TTCGGTCCCT	60
20	ATCHGGGGTG GGCGTAGGAA ATTTGAGAGG AGCTGTCCTT AGTACGAGAG GACCGGGATG	120
	GACATACCTC TGGTGTACCA GTTGTCGTGC CAACGGCATA GCTGGGTAGC TATGTGTGGA	180
	CGGGATAAGT GCTGAAACAT CTAAGCATGA AGCCCCCCTC AAGATGAGAT TTCCCAACTT	240
25	CGGTTATAAG ATCCCTCAAA GATGATGAGG TTAATAGGTT CGAGGTGGAA GCATGGTGAC	300
	ATGTGGAGCT GACGAATACT AATCGATCGA AGACTTAATC AAAATAAATG TTTTGCGAAC	360
30	AAAATCCACT TTTACTTACT ATCTAGTTTT GAATGTATAA	400
	(2) INFORMATION FOR SEQ ID NO: 3709:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3709:	
	AATTTATGG GCCCTTTATG GACTTTATAT TMCCTAAAAT ACTATTAAGA AGTCCTGAAA	60
45	AATTCACATT AGCAGTTGGA TTGTTCAACT TTATTAATGA TAAGTATGCA AATAATTTCA	120
	CAGTGTTTGC AGCAGGGGCA ATTATGATTG CAGTACCTAT AGCAATCGTA TTCTTGTTCT	180
	TGCAACGCTA TTTAGTATCA GGTTTAACAA CAGGTGCGAC AAAAGGTTAG TTTGAAATTT	240
50	GGAGTGGGGC AGAATTGATA AAGAACCACT AATGACGATA AAGATTAAAA GGAGGACGTT	300
	ATGATGACGA TTAAAGTTGG AATCATTGGG TGTGGTGGTA TTGCGAATGG CAAGCACATG	360
55	CCAAGTTTAC AAAAAGTTGA AAATGTTGAA ATGATCGCAT TTGTGACGTG GACTTTCGAA	420

(2) INFORMATION FOR SEQ ID NO: 3710:

5	(A) LENGTH: 559 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3710:	
	AGTGCTCTAC CAAGCTGAGC TACTTCCCGT ATAATTAACG CGCCCGATAG GAGTCGAACC	60
15	CATAACCTCT TGATCCGTAG TCAAACGCTC TATCCAATTG AGCTACGGGC GCATATGTTT	120
•	TTATTGAAAA TGGTGCCGAG GACCGGAATC GAACCGGTAC GTGATCACTC ACCGCAGGAT	180
	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	240
20	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTa TTCTACCGCT GAACTACTTC	300
	TGCATATGCG GGTGAAGGGA GTCGAACCCC CACGCCGTAA GCTKAGATCC TGAAGTCTAG	360
25	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	420
•	ACCCTCTGGA TTGAAAAGTm CAGATGCTCT GACCAACTGG AGCTAATGGC TCTTCCCATG	480
•	GTGGCCGGCC AGAAGGACTT GGAACCCCCA ACCTGATGGA TTTACAATTC AGTTGGCTCT	540
30	AACCAATTTG AGCTAAGGC	559
	(2) INFORMATION FOR SEQ ID NO: 3711:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3711:	
	AACCTTTTAG GAGCTAGCCG TCGAAGGTGG GACAAATGAT TGGGGTGAAG TCGTAACAAG	60
45	GTAGCCGTAT CGGAAGGTGC GGCTGGATCA CCTCCTTTCT AAGGATATAT TCGGAACATC	120
	TTCTTCAGAA GATGCGGAAT AACGTGACAT ATTGTATTCA GTTTTGAATG TTTGTTCATT	180
	CAAATTAATG GGCCTATAGC TCAGCTGGTT AGAGCGCACG CCTGATAAGC GTGAGGTCGG	240
50	TGGTTCGAGT CCACTTAGGC CCACCATTAA TTTAATACCT ATTTGGGGGC TTAGCTCAGC	300
·	TGGGAGAGCG CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA	360
	TTATTTGTAC ATTTGAAAAC TAGATAAGTA AGTAAAATAT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3712:	
	TAGAATGAAC CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT GGAGCCGTAG	6
	CGAnnTCATG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA GCCTGAAACC nnGTGATCTA	12
15	CCCTTGGTCA GGTTGAAGTT CAGGTAACAC TGAATGGAGG ACCGAACCGA	186
	AAAGTGAGCG GATGAACTGA GGGTAGCGGA GAAATTCCAA TCGAACCTGG AAATAGCTGG	24
	TTCTCTCCGA AATAGCTTTA GGGCTAGCCT CAAGTGATGG ATTATTGGAG GTAGAGCACT	30
20	GTTTGGACGA GGGGCCCCTC TCGGGTTACC GAATTCAGAC AAACTCCGAA TGCCAATTTA	360
	ATTTAACTTG GGGAGTCAGA ACATTGGGTG ATAAGGTCCG	400
25	(2) INFORMATION FOR SEQ ID NO: 3713:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3713:	
<i>35</i>	TTTTTAAGTC TGATGTGAAA GCCCACGGCT CAACCGTGAA GGGTCATTGG AAACTGGAAA	60
•	ACTTGAGTGC AGAAGAGGAA AGTGGAATTC CATGTGTAGC GGTGAAATGC GCAGAGATAT	120
	GGAGGAACAC CAGTGGCGAA GGCGACTITC TGGTCTGTAA CTGACGCTGA TGTGCGAAAC	180
40	GTGGGGATCA NACAGGATTA GATACCCGGT AGTCCACGCC GTAAACGATG AGTGCTAAAG	240
	TGTTAGGGGG TTTCCGCCCC TTAGTGCTGC AGTAAACGCA TTNAAGCACT CCGnCTGGGG	300
	AGTACGNCCG CAAGTTGGAA ACTTCAAAGG AATTGACGGG GGACCCGCAC AAGCGTTGGG	360
45	AGCATGTGGT TTAATTTCGA AGCAACGGAG AGGAACCTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3714:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3714:	
5	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	. 60
	TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAACGTAAnT CGACTACCAT	120
	CGACGCTAAG GAGCTTAACT TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT	180
10	AGTCACCAGA CATATGAATG TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT	240
	TTTGCTTCGC AAAACATTTA TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC	300
	CALGTCACCA TGCTTCCACC TCGAACCTAT TAACCTCATC ATCTTTGAGG GATCTTATAA	360
15	CCGAAGTTGG GAAATCTCAT CTTGAGGGGG GCTTCATGTC TTAGCATTTC AGTCACTTAT	420
	GCCCG	425
	(2) INFORMATION FOR SEQ ID NO: 3715:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3715:	
30	GTCCCTGCTG TTCCTATCAT ATAAATGATA GATTCAAATA GATTTGTAGG TTTGTCATGC	60
	CCAGTTACAA GTTGCGTTAT CGTAGACACT AACATTAATA TGACTGGTAA TGTTGCTGTT	120
	AATAAACTCA TACCAAATCC TGGCATCTCT TGATCCGTAA ATTCTTTTTG TGCACCTAAC	180
35	GCTGAAATAT CGCCTTCTCG TGTATACGCA GACGGAATCA TTTTTTGTGC ACTTTGTTAA	240
	ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA GTAATACATC	300
40	TCCAACATTT GCCTTTAATT CTTTTGCGAG ACTACCGGTC CTGGGATGTG GTGGTAAAAA	360
	GCCATGTGTC ACTGATAAAG CTGTTACCAT ANGTAGTCCT	400
	(2) INFORMATION FOR SEQ ID NO: 3716:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3716:	
	TTATGAATTC AAGCTTATTT AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT	60
55		

	GCAATATCAC TTTAACCAAA AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA	180
	ATATGTCACA TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA	240
5	GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG	300
	TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGTTTCGGGT GTTACAAACT	360
10	GTTCGTGGTG TGACGGGGCG GTGTGTTACA AGACCCGGGA	400
,,	(2) INFORMATION FOR SEQ ID NO: 3717:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3717:	
	AAAGGACGAC ATTAGACGAA TCATCTGGAA AGATAATTCA AAGAAGGTAA TAATCCTGTA	60
25	GTCGAAAATG TTGTCTCTCT TGAGTGGATC CTGGTACGAC GGAGCACGTG AAATTCCGTC	120
	GGAATCTGGG AGGACCATCT CCTAAGGCTA AATACTCTCT AGTGACCGAT AGTGAACCAG	180
	TACCETGAGG AAAGGTGAAA AGCACCCCGG AAAGAGTTGA AATAGAACCT GAAACCGTGT	240
30	GCTTACAAGT AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG	300
,	CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAN AANNTGTTCT	360
•	GAATAGGGCG TTTAGTATTT TGGTCGTAGC CCGAGAACCA	400
35	(2) INFORMATION FOR SEQ ID NO: 3718:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3718:	
	TAATTCATCT GCAGCATCTG GTTGATTTAA GCTTTCACGT AAACACATCG CTAAAGATAG	60
	AATCATTCCA AATGGATTGG CAACGTTTTT ACCTGCAATA TCTGGTGCTG ATCCATGAAT	120
50	AGGCTCATAC AATCTTGGAC CATCGTTACT AAAACTAGCA GAAGGTGATA AACCAAGTGA	180
	ACCAGGAATC ACTGAAGCTT CATCACTTAA AATATCGCCA AATAAGTTTT CACATACGAT	240
	GACGTCAAAT TGTTTTGGNA TTTGTGATTA AATGCATACT ACAAGCATCA ACAAATAAGT	300

	TITACTAGAA GCTAATACAT TTCCTTATCA ACGGATGTNA	400
	(2) INFORMATION FOR SEQ ID NO: 3719:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
, .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3719:	,
15	ATTTAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAANTA AGTNGAGCTA CCATCGACGC	60
	TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC	120
	CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT	180
20	TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT	240
	CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA	300
25	GTTGGGAAAT CTCATCTTGA GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT	360
25	CCACACATAG CTACCCAGCT AGCCGTTGGC ACGACAAnGG	400
	(2) INFORMATION FOR SEQ ID NO: 3720:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3720:	
	CGTTACACCT TCCAATAAAT TTGCTGTTGC TGGATAAGGA GAAATATTGA TATATTGTCT	60
40	TAAATTACTA TAATGCCAAT TTAAGTCTGG ATGATTTGTT AAGACACCAA TAGGATTATC	120
	TTTTATAACC ACTTCACCCT CTTTAAATGA AACTTCGACT GTATGTCCAG TTGCATCGGA	180
45	AACATGATAA TGCAATGGCG GAACTTCACC GATGTCATTT AAATATACAG CTACAACATG	.240
	TATTTGGGAT GCTTGTTGTT TCATATCTTC AATGCTTGTT GTATATCCCA AAATCCATGT	300
	CACAATTTCA TTTTGCGTAA TATTCATCGC GTCCGCTTTG TGTGTTGGAT CCATATGGAA	360
50	CTATAACCTC GGGAAATATT GTGGTTGAAA TGGGCACGCC	400
	(2) INFORMATION FOR SEQ ID NO: 3721:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(wi) Grouping Programmer and The Control of the Con	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3721:	
	AGTCAGTTTA TAGCGATTGC TGGACTGACA GTACTTGTGC CATTATTGCC AATTTATATG	6
10	GCATCACTAC AAAATCTATC AGTCGTAGAA ATACAGTTGT nGAGTGGTAT AGCGATTGCT	12
	GCTCCAGCTG TAACGACGAT GATAGCTTCG CCGATATGGG GGAAGCTAGG TGATAAGATC	18
	AGCCGAAAAT GGATGGTGTT AAGAGCGTTA CTTGGTTTGG CGGTATGCTT ATTTTTAATG	, 24
15	GCATTGTGTA CGACACCATT ACAGTTTGTA CTTGTGGAGG TTATTGCAGG GACTATTTGG	30
	TGGTGTTGTT GATGCATCAA GTGCGTTTGC GAGTGCAGAA GGCGCCACTG ADAGATCGTG	.36
20	GGAAAGGTAT TAGGAAGACT GCAAATTnCA GTTCAGCGCA	40
	(2) INFORMATION FOR SEQ ID NO: 3722:	-
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	·
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠. ــ
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3722:	
	TCTAAAAGTT GAACTACTCC CGCATAAACC TGGAGGCGGC AACCGGATTT GAACCGGTGA TAAAGGTTTT GCAGACCTCT GCCTTACCAC TTGGCTATGC CGCCAATAAC TGGGCTAGCT	12
35	GGATTCGAAC CAACGAGTGA CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAT	12:
	TAATAATAAG GGCGGCTGAA GGGGATCGAA CCCTCGAATG TCGGAACCAC AATCCGATGT	24
	GTTAACCACT TCACCACAGC CGCCATGGCA GGGGCAGTAG GAATCGAACC CACACCAAAG	30
40	GTTTTGGAGA CCTCTATTCT ACCNTTGAAC TATGCCCCTA TTAAAATGAT AAATGGAGGG	360
	GGGCAGATTC GAACTGCCGA ACCCGAGGGG CGGATTTTAC	400
45	(2) INFORMATION FOR SEQ ID NO: 3723:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	•

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3723:

. • 10

GGTTCAAGTC	CTCTGGCCGG	CACCATTINT	GGAGGGGTAG	CGAATGGCTA	AACGCGGCGG	120
ACTGTAAATC	CCCTCCTTCG	GGTTCGGCAG	TTCGAATCTG	CCCCCTCCA	TTTATTATTT	180
TTAATAGGGG	CATAGTTCAA	CGGTAGAATA	GAGGTCTCCA	AAACCTTTGG	TGTGGGTTCG	240
ATTCCTACTG	CCCCTGCCAT	GGCGGCTGTG	GTGAAGTGGT	TAACACATCG	GATTGTGGTT	300
CCGACATTCG	AGGGTTCGAT	CCCCTTCAGC	CGCCTTATTA	TTAATGGGCT	ATAGCCAAGC	360
GGTAAGGCAA	CGGACTTTGA	CTCCGTCACT	CGTTGGTTCG			400
(2) INFORM	ATION FOR SI	EQ ID NO: 3	724:			
	EQUENCE CHAP (A) LENGTH: (B) TYPE: no (C) STRANDER (D) TOPOLOGY	400 base pa cleic acid DNESS: doubl	airs			
(xi) s	SEQUENCE DES	SCRIPTION: S	SEO ID NO: 3	3724 :		•
	AATGGTGACA			:	TGGCAAGTCA	60
ATATGGCGTG	CGTCGTTTTG	ATCATAAATT	AGAATCAAAA	GGATACGACG	ATGCAGAATC	120
AAAATATACA	CCTGCTTGGC	AAGAAGCCAT	TTCAGGCGTA	AAACAAAGTG	TTnGTCATTC	180
AAGTAGCGAA	AGAATTTGCG	CAAAACGCTA	TCGATACTGA	AGGGCGTTCA	ATGATTATCA	240
TGGGTGCGGG	TATTAACCAT	TGGTTTAACT	CAGATACGAT	TTATCGTTCC	AATCTTAAAC	300
TTAGTTATGT	TATGTGGCTG	TCAGGTGTGA	ATGGTGGCGG	TTGGGGCTCA	CTATGTGGGG	360
ACAAGAAAAA	TGTCGTCCGA	TTGAAGGATG	GAGTACTGTC			400
(2) INFORM	ATION FOR SE	EQ ID NO: 37	725 :			
	EQUENCE CHAR (A) LENGTH: (B) TYPE: nu (C) STRANDEI (D) TOPOLOGY	476 base pa cleic acid NESS: doubl	airs			
(xi) S	SEQUENCE DES	SCRIPTION: S	SEQ ID NO: 3	3725:		
	ATCTGAATCG				GAATCGCTAT	60
CTGAATCTGA	GTCGCTATCT	GAGTCTGAGT	CGCTATCTGA	ATCTGAGTCG	CTGTCTGAAT	120
CTGAATCACT	GTCTGAGTCT	GAGTCGCTGT	CTGAGTCTGA	ATCGCTGTCA	GAATCTGAGT	180
CGCTATCTGA	GTCTGAATCT	GAATCACTGT	CTGAGTCCGA	ATCCCTATCT	GAATCTGAAT	240

	CCGAGTCTGA ATCGCTGTCT GAGTCTGAGT CGCTGTCTGA ATCTGAATCG CTATCTGAGT	360
_	CTGAGTCGCT GTckGAATgC GCTGTCTGAA TCTGAGTCGC TATGCTGAAT GCTGAGTnCG	420
5	CTATGTGAGT CTGAATGCGC TGTGCAGAAT CTGAGTGCGC TCATCTGATG TTTCTT	476
	(2) INFORMATION FOR SEQ ID NO: 3726:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3726:	
	ATACGACCAC TGTTTAATGC GTCCATTAAA TCTGGCCAAT TATTGAATTT AACTAATTCT	60
20	AGTITATATT TCGGATGATT GTATTGTGAT AATAATTTTT TAGTCATCAT CAAATTAGCT	120
	GAATGTGTAA TCGGCAAATA TCCAATTTTA ATCACTTGCT GATTTTGGGC ATTTTTAGAC	180
25	CGTTCTTTAG ACGTCCTTTG CCAATCACAT CCTGTAATTA TAAAGATTCC AATGATGACG	240
25	ATTATGCTTA ACCTTTTCAT CGTCACTCAC TCCTTATAAA TAATATTCAG GTTCAACTTG	300
	ATGATGATTC AATGCAANGT TTCCATAATT TCATTACGAA TCTTAAGTAG GTGGCTATCA	360
30	TTACGGACTG CGTGGATGTG ANGCTGTAAA TTCCATANTG	400
	(2) INFORMATION FOR SEQ ID NO: 3727:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3727:	
	ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	60
45	ATGGGCGAAC AGCAAACCCT TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC	120
	GAGGTGCCAA ACCTCCCCGT CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG	180
	GGTAGCTTTT ATCCGTTGAG CGATGGCCCT TCCATGCGGA ACCACCGGAT CACTAAGTCC	240
50	GTCTTTCGAC CCTGCTCGAC TTGTAGGTCT CGCAGTCAAG CTCCCTTATG CCTTTACACT	300
	CTATGAATGA TTTCCAACCA TTCTGAGGGA ACTTTGAGCG CCTCCGTThC CTTTTAGGAG	360
	GCGAACGGCC CCAGTTCAAA CTGCCCGCCT GAACACTGTC	400
<i>55</i>		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3728:	
	TTGAAAAGTC ATATCAAAGC GCACATGTTT TTAAGCGTCG TCGAACACCT ATCGTGAAAG	60
	GTGTGTCATT TGAGTGTCCA ATCGGTGCGA CGATTGCGAT TATCGGAGAA AGTGGTAGCG	120
15	GTAAATCGAC GTTGAGTCTA TTGATATTAG GTATTGAGAA ACCGGATAAA GGTTGTGTAA	180
	CCTTAAATGA TCAACCGATG CATAAGAAGA AAGTGAGACG TCATCAAATT GGTGCTGTAT	240
	TTCAAGATTA TACGTCATCA TŢACATCCAT TTCAGACTGT TAGAGAAATC TTATTTGAAG	300
20	TGATGTGTCA ATGTGATGGA CAACCTAAAG AAGTTATGGA AGTCCAAGCA ATTACATTGT	360
	TGGAAGAGT CGGTCTATCT AAGGCATACA TGGGATAAAT	400
25	(2) INFORMATION FOR SEQ ID NO: 3729: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3729:	
<i>35</i>	ATCGAACCCC CGACCTCACG GGTATGAACC GTACGCTCTA GCCAGCTGAG CTACACCGCC	60
	TTATATAGTT TGTAAATAAT ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG	120
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA	180
40	GACAGGTTCG AACCTGCGAC CCCTTGGTCC CAAACCAAGT GCTCTACCAA GCTGAGCTAC	240
	TTCCCGTATA ATTAACGCGC CCGATAGGAG TCGAACCCAT AACCTCTTGA TCCGTAGTCA	300
	AACGCTCTAT CCAATTGAGC TACGGGCGCA TATGTTTTTA TTGAAAATGG TGCCGAGGAC	360
45 ·	CGGAATCGAA CCHGTAGTGA ATCACTCACC GCAGATTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3730:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3730:	•
5	ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT	6
	CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC	12
	ACCATTITTA TAAGTCAAAC GTTAACATGA AGTTACGTTC TTTTATAAAA AGATTTAAAC	. 18
10	GCGTTATTAA TCTTGTGAGT GTTCTTTCGA ACACTAGCGA TTATTTCTTA TGAATTCAAG	24
	CTTATTTAAA ACTCTTTATT CACTCGGTTT TGCTTGGTAA AATCTATATT TTACTTACTT	30
	ATCTAGTTTT CAATGTACAA ATAATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT	36
15.	GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC	40
	(2) INFORMATION FOR SEQ ID NO: 3731:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3731:	
	TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCGG CAATATGTAA GAATAAATGG	6
30	TGGAGAATGA CGGGTTCGAA CCGCCGACCC TCTGCTTGTA AGGCAGATGC TCTCCCAGCT	12
,	GAGCTAATTC TCCGATTTAA AACTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC	18
	GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT	24
35	CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT	30
	AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAL GTCTTCGATC GATTAGTATT	36
	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCGAACCTA T	40
40	(2) INFORMATION FOR SEQ ID NO: 3732:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3732:	
	CATTATTAAC GGCTATGGTT TAACTGAAGC ACCTCTTGTA CTTGTTAATA CACCGGAAAA	61
	TTCAAAACGT AAGCCAATGA GTATTGGTAA AGCAGTCATG TTCGTTGATG CACGTATCCT	12

	AAATGTCACG CCAGGATATT GGAATAAACC AGCAGAGACT GCCAAAGCAT TTCATGGTCG	240
	ATATTTATTA ACTGGTGACT TAGCGAGATG GACAACGATG GCGATATATT TATTATTGAC	300
5	CGCAAAAAAG AATTAATCAT AACTGGTGGC GAAAATGTCT TACCATCCGa gTCGAAAtGC	360
	TTaCtGaGCA TCCACTAGTA GACCGGTGTG TGGTCGT	397
•	(2) INFORMATION FOR SEQ ID NO: 3733:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3733:	
20	AAGTAACAAT CGTTCACCGT CGTGATGAGT TACGTGCACA GCGTATTTTA CAAGATAGAG	60
	CATTCAAAAA TGATAAAATC GACTTTATTT GGAGTCATAC TTTGAAATCA ATTAATGAAA	120
	AAGACGCCAA AGTGGGTTCT GTGACATTAA CGTCTACAAA AGATGGTTCA GAAGAAACAC	180
25	ACGAGGCTGA TGGTGTATTC ATCTATATTG GTATGAAACC ATTAACAGCG CCATTTAAAG	240
٠.	ACTTAGGTAT TACAAATGAT GTTGGTTATA TTGTAACAAA AGATGATATG ACAACATCAG	300
	TACCAGGTAT TTTTGCAGCA GGRGATGTTC GCGACAAAGG TTACGCCAAA TTGTCACTGC	360
30	CACGGCGATG GTAGTATGCC AGCGCAAGTG CCACGGAATG	400
	(2) INFORMATION FOR SEQ ID NO: 3734:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 480 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3734:	
	GCCGTTTACT GTGGCTTCGA TTCGTAGCTT CGCAGAAGCT AACCACTCCT CTTAACCTTC	60
45	CAGCACCGGG CAGGCGTCAG CCCTATACAT CACCTTACGG TTTAGCAGAG ACCTGTGTTT	120
	TTGATAAACA GTCGCTTGGG CCTATTCACT GCGGCTCTTC TGGGCGTTAA CCCTAAAGAG	180
	CACCCCTTCT CCCGAAGTTA CGGGGTCATT TTGCCGAGTT CCTTAACGAG AGTTCGCTCG	240
50	CTCACCTTAG AATTCTCATC TTGACTACCT GTGTCGGTTT GCGGTACGGG CACCTATTTT	300
	CTATCTAGAG GCTTTTCTCG GCAGTGTGAA ATCAACGACT CGAAGACACA ATGTCTTCTC	360

2664

•

	TAGACGTGCA ATCCAATCGG CAACGCTTCG CCTAATCCTA ACTGGCGGTC CCCCCCCAT	480
	(2) INFORMATION FOR SEQ ID NO: 3735:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
·	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(5) 10102001. 1211001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3735:	
15	CGATCCCTTC AGCCGGACTT GGGTATTCCT CCAAAATTAT ATGGACCTTG CAGACTCGAA	60
	CCTGCGACCG AACGGTTATG AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA	120
	TARTTTTACA ACTAATAAAT AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA	180
20	TGAACCGTAC GCTCTAGCCA GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	240
•	TGGAGACTAG CGGGATCGAA CCGCTGGACC TCCTGCGTGC AAACAGnCGC TCTCCCAGCT	300
	GAGCTHAAGC CCCCATAATA ATTACAGTAT ATCGGGAAGA CAGGATTCGA ACCTGCGACC	360
25	CCTTGGTCCC CAAACCAAGT GGTTTnACCA AGTTGAGCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3736:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
35	/ 1) and the second of the sec	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3736:	
	TGAGCCCGAC GAGCTACCGA ACTGCTCCAT CCCGCGATAA TAAAAAATAA TGGCGGAGGA	60
40	AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG GTTTTCAAGA CCGATCCCTT	120
	CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC GCTATTAATT ATAAAATTAA	180
	ATGGCGGTCT CGACGGGAAT CGAACCCGCG ATCTCCTGCG TGACAGGCAG GCGTGTTAAC	240
45	CGCTACACTA CGAGACCATT AGTAAAACGG AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	300
	TTAAGCCCCT GTCGGTTTTC AAGACCGATT CCTTCAGCCG GACTTGGGTA nTCnTCCAAA	360
	ATTATATGGA CCTTGCAGGA CTCGAACTGC GAnCGAACGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3737:	
	(i) SEQUENCE CHARACTERISTICS:	-
	(A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3737:	
	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC	60
10	AAGTGCTCTA CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC	120
	CCATAACCTC TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT	180
•	TTTATTGAAA ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA	240
15 .	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT GGAGCAGAAG	300
•	ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGGTTGT ATTCTACCGC TGAACTACTT	360
	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA	400
20	(2) INFORMATION FOR SEQ ID NO: 3738:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3738:	•
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
	CTAATTCTCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AATCGGARCT	120
35	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	180
	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	240
	GTGATTTTGC TTCGCAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG	300
40	CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT	360
	TATAACCGAA GTTGGGAAAT CTCATCTTGG AGGGGGGCTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3739:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2666

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3739:

	CACCACCCGA CATATTTTCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA CCGACATCTT	120
	TAATTAATTG CTmTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT GATGGGAATA	180
5	TCATGTTATC TTCAATCGTT TCACCAAACA AGTCACTTTG CTGCATCAAA TAACTGATTC	240
	GTTGACGCAA TTCTTCCGGG TCATAATCAT TATAGGGTTT ACCTTTAAAA TAAAGTTCTC	300
	CACTAGTTGG ACTAAACAAA TTACATATmT GCTTTTGAAA TGTACTTTTA CCACTACCTG	360
10	ATGGACCTAT AATGGCAATA CTCTCGCCTT TATCTACTTT	400
·	(2) INFORMATION FOR SEQ ID NO: 3740:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3740:	
	ATCGCTTGCT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG	60
? 5 .	TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTTCT	120
	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAA AAGAGACCTT GCGGTCTCAA	180
	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ANTAATTGGC	240
30	TACCATCGAC GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT	300
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	360
35	AGATECAAAC GTTTTCACTT CGCCAAGCCA ETTTTCETTG TGTTTGCTTT TDA	413
	(2) INFORMATION FOR SEQ ID NO: 3741:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3741:	
	CTTAGATGCT TTCAGCACTT ATCCCGTCCA CACATAGCTA CCCAGCTATG CCGTTGGCAC	60
io ·	GACAACTGGT ACACCAGAGG TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTC	120
	TCAAATTTCC TACGCCCACG ACGGATAGGG ACCGAACTGT CTCACGACGT TCTGAACCCA	180
	GCTCGCCTAC CGCTTTAATG GGCGAACAGC CCAACCCTTG GGACCGACTA CAGCCCCAGG	240

	TAAGCTGTTA TCCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGCCCTTCC ATGCGGAACC	360
•	ACCGGATCAN TAAGTCCGTC TNTCGACCCT GNTGGACTTG	400
5	(2) INFORMATION FOR SEQ ID NO: 3742:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3742:	
	GTTTTGAATG TATAAATTAC ATTCATATGT CTGGTGACTA TAGCAAGGAG GTCACACCTG	60
	TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
20	CGCTAGAGTA GAACGTTGCC AGGCAGTTTT AAATCGGAGA ATTAGCTCAG CTGGGGAGAG	180
•	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	240
	TACATATTGC CGGCCTAGCT CAATTGGTAG AGCAACTGGA CTTGTAATCA GTAGGTTGGG	300
25	GGTTCAAGTC CTCTGGCCGG CACCATGGGA AGAGCCATTA GCTCAGTTGG TAGAGCATCT	360
	GACTTTTAAA TCAGAGGTTT CAGAGGTTTC GAATCCGCTA	400
.35	(2) INFORMATION FOR SEQ ID NO: 3743: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ACC) CROUNTED DECERTIFIED CEO ID NO. 2742.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3743: TCGCAATAAC CGCATCAAAT GTATTGCCTA AAAAGGCTGG ATTTTCCAAT GTGTCATCAT	60
40	TACGGATCTC GAAGTTCTCA TAACGCACAT CATGTAATAA CATATTCATG CGTGCTAAGT	120
	TGTATGTAGT ATTGTTACGT TCTTGTCCGA AATAACGATA CACTTGCGTT TCTTTACCAA	180
45	CACGTACAA CAATGAACCG GAACCACATG TTGGGTCGTA CACGTGACGT AATTTATCTT	240
45	TACCGTCTGT GACAATCTTC GCCAGTATCT TAGATACTTG TTGTGGTGTA TAGAACTCGC	300
	CTGCTTTTTT ACCCGCTGTC GCCGCAAAGC GCCCGATTAG GAATTCATAT GCATCACCTA	36.0
50	ACATATCAAT TTCCATGGTC ACTGTGAACG AATGGGTAAG	400
		100
	(2) INFORMATION FOR SEQ ID NO: 3744:	

(A) LENGTH: 400 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3744:	
10	CTACTGATTA CAAGTCAGTT GCTCTACCAA TTGAGCTAGG CCGGCAATAT GTAAGAATAA	60
	ATGGTGGAGA ATGACGGGTT CGAACCGCCG ACCCTCTGCT TGTAAGGCAG ATGCTCTCCC	120
	AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	180
15	GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG AACAGGTGTG	240
	ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAGATAGT	300
	AAGTAAAAGT GATTTGCTTC GCAAAACATT ATTTGATTAA GTCCTCGATC GATAGTATCG	360
20	TCAGCTCCAC ATGTCACCAT GCTTCCANCT CGNACCTATT	400
	(2) INFORMATION FOR SEQ ID NO: 3745:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3745:	
	CATAAGTAAA CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT	60
35	AAAAAGATTT AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT	120
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	180
	TATTITACTT ACTTATCTAG TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA	240
40	CTGCTTTATT nTCAAAAAT CAAATGCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTC	300
	TTAATGCATT GTCTAACAAC CGCTTGCTTT AAAAAGAATA GATTGNCAAG CGCTCGCATA	360
	AGCAATATCA CTTMAACCAA AAAATA	386
45	(2) INFORMATION FOR SEQ ID NO: 3746:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 677 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAGGTGAAAA GCACCCCGGA AGGATGTTGA AATAGAACCT GAAACCGTGT GCTTACAAGT	60
	AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG CGAGTTACGA	120
5	TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAK AACANGGTCT GAATAGGGCG	180
	TTTAGTATTT GGTCGTACCG ANAACCAGGT GATCTACCCT TGGTCAGGTT GAAGTTCAGG	240
10	TAACACTGAA TGGAGGACCG AACCGACTTA CGTTGAAAAG TGAGCGGATG AACTGAGGGT	300
	AGCGGAGAAA TTCCAATCGA ACCTGGAGAT AGCTGGTTCT CTCCGAAATA GCTTTAGGGC	360
	TAGCCTCAAG TGATGATTAT TGGAGGTAGA GCACTGTTTG GaCGAGGGGC CCCTCTCGGG	420
15	tTACCAATTC AGACAAACTC CGAATGCCAA TTAATTTAAC TTGGGGAGTC aGAACATGGG	480
• .	TGATAAGGTC CGTGTTCGAA AGGGAAACAG CCCAGACCAC CAGCTAAGGT CCCAAAATAT	540
	ATGTTAAGTG GAAAAGGATG TGGCGTTGCC AGACAACTGA GGATGTTGGC TTAGAAGCAG	600
20	CCATCATTTT AAAGAGTGCG TAATAGCTCA CTAGTCGAAG TGACACTGCG CCGAAAATGT	660
٠	GACCGGGCnT AAACnAT	677
25	(2) INFORMATION FOR SEQ ID NO: 3747:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3747:	
35	GTCCAATGAT TCATATGCTT TATTATCACG GTATTGCCTT TGAATCGCAT GCACAAAATA	60
	TGATGCTCAT TCATGAAAAT GGTTGGCCTA CACGTATTGC CTTAAAAGAT TTCCATGATG	.120
40	GTGTTCGTTT TAAGCGTGAC ATTTAAGTGA AGCTGCTTCA CACCTGACAT TAAAGCCAAT	180
	GCCAGAAGCA CATAAAAAG TGAATAGTAA TTCATTTATT GAAACAGATG ACGAACGTTT	240
	AGTACGCGAC TTTTTACATG ATGCATTTTT CTTTATTAAT ATCGCCGAAA TCATCTTATT	300
45	TATTGAAAAG CAATATGGTA TCGATGAGGA GCTGCAATGG CAATGGGKTa AAGGCATCAT	360
	CGAGGCGTAT CCAGrageAT TTCCAGAGTT kGAATAACTA TCCAACCATT CGGTTTT	417
	(2) INFORMATION FOR SEQ ID NO: 3748:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3748:	
	ATGCTCTCCC AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG	60
5	CGGAACGTAA GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG	120
	AACAGGTGTG ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA	180
	ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGTCTTCG	240
10	ATCGATTAGT ATTCGTCAGC TCCACATGTC ACCATGCTTC CACCTCGAAC CTATTAACCT	300
	CATCATCTTT GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA	360
15	TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3749:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3749:	
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
30	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
	GTTTTAGGCA TAAAAAAAG AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTTT	180
· :	TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AAGTTGGGCT ACCATCGTCG CTAAAGACCT	240
35	TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC TTACTCATTT	300
	AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	360
40	GCCAAGCCAT TTTTTCTTTG TGTnTACTTT TTAATTTTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3750:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3750:	
	ATAAAAAAA GAGACCTTGC GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC	60
	AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC	120

	TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	240
	ATTITICTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAA GAGACCTTGC	300
5 .	GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGGC AACGTTCTAC TCTAGCGGAA	`360
	nTAAnTTGGG CTACCATCGA CGCTAAGAAC CTTTCTTGGA	400
10	(2) INFORMATION FOR SEQ ID NO: 3751:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	() energy an anagarantour and the Mo. 2751	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3751:	
,	CACTCACCGC AGATTTTAA GTCCTGTGCG TCTGCCAGTT CCGCCACCCC GGCACTATAA	60
	AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC CTTGGCAAGG TTGTATTCTA	120
25 [°]	CCGCTGAACT ACTTCTGCAT ATGCGGGTGA AGGGAGTCGA ACCCCCACGC CGTAAGCTNA	180
	GNATTCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
	GGATTCGAAC CTCTGGACCC TCTGATTAAA AGTCAGATGC TCTACCAACT GGAGCTAATG	300
30	GCTCTTTCCA TGGTGCCCGG CCAGAGGACT TGGAACCCCC AACCTACTGA TTACAAGTCA	360
	GTTGCTCTAA CCAATTGAGC TAAGCCGGGC AATATGTTAn	400
	(2) INFORMATION FOR SEQ ID NO: 3752:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3752:	,
45	TTANANANCC GCGACATTAT AGAGCCAATC ACTAGCCTAT CTCAGAATCA CCAACGAATC	6
•	CTTCATTATT AAGGAATCTA GGCATCTTTA CGGCGTGGTT CTAATCGCAT CTTTTTCAAT	12
	CTAAGTGCGT TTGTGACAAC ACTTACTGAA CTTAGTGCCA TTGCAGCACC AGCAACCCAT	18
50	GGCGCAAGTA AGCCCAATGC AGCTATAGGG ATACCGGCAA TATTATAGCC GAATGCCCAA	24
	AATAGATTTT GACGAATATT ACGAATGGTT GCTTTACTTG CATAAATGGC TTTAGGAATA	30
	AGCATCAAGT CGCCACCAAG AATAGTAATA TCAGCTGCTT CAATGGGCAA CTTCTGTTAC	36

(2) INFORMATION FOR SEQ ID NO: 3753:

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3753:	,
		•
	CCTTGCGGTC TCAATGGCGG CTCATCGCAT CCATTTTTTG CCTGGCAACG TTCTACTCTA	61
15 .	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	120
	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	180
	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	24
20	TTACTTTTTA TTTTGACGTT TTAGACATAA AAAAAAGAGA CCTTGCGGTC TCAATGCGGC	30
	TCATCGCATC CATTITTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA GTGGCTACCA	. 36
	TCGACGCTAA GAACCTTTCT TGACTGGTGA CAAnCGCTTG	40
25	(2) INFORMATION FOR SEQ ID NO: 3754:	
<i>30</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3754:	
	CTGAGCTAAG CCCCCAAATA GGTATTAAAT TAATGGTGGG CCTAAGTGGA CTCGNACCAC	6
	CGACCTCACG CTTATCAGGC GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTAATTTGA	12
40	ATGANCAAAC ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG	18
	ATGTTCCGAA TATATCCTTA GAAAGGARGT GATCCAGCCG CACCTTCCGA TACGGCTACC	24
45	TTGTTACGAC TTCACCCCAA TCATTTGTCC CACCTTCGAC GGCTAGCTCC TAAAAGGTTA	30
45	CTCCACCGGC TTCGGGTGTT ACAAACTCTC GTGGTGTGAC GGGCGGTGTG TACAAAACCC	36
	GGGAACGTAT TCACCGTAGC A	38:
50	(2) INFORMATION FOR SEQ ID NO: 3755:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
-		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3755:	
<i>5</i>	AGCTCCCCAA AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCCAAGGCAT	60
	CCCCGTGCGC CCTTAATAAC TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA	120
	CATGAAGTTA CGTTCTTTTA TAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT	180
10	TTCGAACATA GGCGATTATT TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC	240
•	GGTTTTGCTT GGTAAAAACn ATATTTTACT TACTTATCTA GTTTTCAATG TACAATTTCT	300
	TTTTAGTCAA GCGCTCGCAT ACTGCTTTAT TTTCCATAAG CAATADCACT TTAACCAAAA	360
	AATATTTGGA ATGTTNAAAT AAACATNCAA AACTGAATAC	400
	(2) INFORMATION FOR SEQ ID NO: 3756:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3756:	
	CTACTCACAC CGGCATTCTC ACTTCTAAGC GCTCCACATG TCCTTACGAT CATGCTTCAA	60
80	CGCCCTTAGA ACGCTCTCCT ACCATTGTCC AAAGGCATGC GCACAGCTTC GGTAATATGT	120
	TTAGCCCCGG TACATTTTCG GCGCATGTCA CTCGACTAGT GAGCTATTAC GCACTCTTTA	180
15	AATGGATGGC TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCCAC ATCCTTTTCC	240
	ACTTAACATA TATTTTGGGA CCTTAGCTGG TGGTCTGGGC TGTTTCCGGn GGGGNACACG	300
	GACCITATCA CCCATGITCT GACTCCCAAG TTAAATTAAT TGGCATTCGG ATTTGTCTGA	360
0	ATCGGTAACC CGAGAGGGCC CnTCGTCCAA ACAGTGCTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3757:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 458 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3757:	
	GGCAGATGCT CTCCCAGCTG AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC	60

	·	
	ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT	180
	TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT	240
5	CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT CGAACCTATT	300
	AACCTCATCA TCTTTGAGGG aTCTTATAAC CGAArTttGG GAAtCTCATC TTGAGGGGGG	360
	gCTCATGCtT AGATGCTTcA GCACTTATCC CGTCCACACA TAGCTANCCA GCTATGCCGT	420
10	ThGCACGACA ACTGGTACAC CAGANGTATG TCCATCCC	458
	(2) INFORMATION FOR SEQ ID NO: 3758:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3758:	
	AGCGCTCGCA TACTGCTTTA TTTTCAAAAA ATCAAATGCT CATTTACAAA AGTAAACTCC	60
? 5	GCTTTAATTT TTCTTAATGC ATTGTCTAAC AACCGCTTTC TTTAAAAAGA ATAGATTGTC	120
	AAGCGCTCGC ATAAGCAATA TCACTTTAAC CAAAAAATAT TTGAATGTTA AATAAACATT	180
30	CAAAACTGAA TACAATATGT CACGTTATTC CGCATCTTCT GAAGAAGATG TTCCGAATAT	240
	ATCCTTAGAA AGGAGGTGAT CCAGCCGCAC CTTCCGATAC GGCTACCTTG TTACGACTTC	300
	ACCCCAATCA TTTGTCCCAC CTTCGACGGC TAGCTCCTAA AAGGTTACTC CACCGGCTTC	360
35	GGGTGTTACA AACTCTCGTG GTGTGACGGG CGGTGTGTAC	400
	(2) INFORMATION FOR SEQ ID NO: 3759:	
;o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	۸
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3759:	
	GACTTGGGTA TTCCTCCAAA ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG	60
50	GTTATGAGCC GTTAGCTCTA ACCAACTGAG CTAAAGGTCC TAAATATAAT TTTACAACTA	120
~	ATAAATAGTG GCGGTGGAGG GGATCGAACC CCCGACCTCA CGGGTATGAA CCGTACGCTC	180
	TAGCCAGCTG AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG	240

	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC	360
	AAGTGCTCTA CCAAGCTGAA GCTACTTTCC CGTATAATTA	400
5		400
5	(2) INFORMATION FOR SEQ ID NO: 3760:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3760:	
15	CACTTAATGC CCGTACCACA CATAGCTACC CAGCTATGCC GTTGGCACGA CAACTGGTAC	60
	ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC AGCTCCTCTC AAATTTCCTA	120
20	CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC TGAACCCAGC TCGCGTACCG	180
	CTTTAATGGG CGAACAGCAA NCCCTTGGGA CCGACTACAG CCCCAGGATG CGATGAGCCG	240
	ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA GCCTGTTATC	300
25	CCCGGGGTAG CTTTTATNCG TTGAGCGATG GNCCTTNCAT GCGGAACACC GGATCACTAA	360
	GTCCGTCTTT CGACCCTGCT CGACTTGTAG GTCTCGCAGT	400
	,	
30	(2) INFORMATION FOR SEQ ID NO: 3761:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 623 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3761:	
40	TATGTATTTT ATAATGTACA GCTCGTTGAn TCnTATTTTT CCTTATATTA AGTGCCATTA	60
	ATACAAAACC TAGCTCTCGT TTAACTTTAT TTATTCCTCG AACTGACATT CGAGTGAACC	120
,	CAAAATAGCC TTCATAAATC CAAAAACAGG CTCTACATCA ATTTTTCTTT GACTATAGAT	180
45	TTTTTTCGTT TCTGGTTCAG AAAGCTTTTG ATTAATTTGG ACTTTAAAGT ATTCCCAATT	240
**	ATAATTCTTC ATGATTTTCT TATTGGATTT CGAATTTGGT TTCATGCATT GATGTCTCAA	300
50	AGAACATGAT GAACAGTCAT CACATTCATA TAGTTTGAAG TCTCGTTTAA AACCATATCT	360
	ATCATTACGG TATGCATATC TTTTAAAACC TATTCTTTTG TTATTAGGAC ATATAAATTC	420
	ATCATTAAGT TCGTCATATT TCCAATTTTA AGTGTTGAAA ATGTCACTTT TAAACTTTCT	480
	·	

	AATAGCCATA TAGTTTTGCT CACTACCATA ACCGGCATCA GCTACAAATA TACTCCGGTA	600
	AATAACCGAG GGATTGTTGG AAT	623
5	(2) INFORMATION FOR SEQ ID NO: 3762:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 718 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3762:	
	ATTITAAAAA TAGTTCTTTA AATTATATAC CCACCACATT TGGTGGAGAA CCTAAAAAAA	60
	AGCACTTCCC AAAAATGGAA AGTGCAAGTA GTGAGCCATA GAGGATTCGA ACCTCTGACC	120
20	CTCTGATTAA AAGTCAGATG CTCTACCAAC TGAGCTAATG GCTCTAATGG CTGGGCCTAG	180
	CTGGATTCGA ACCAACGAGT GACGGAGTCA AAGTCCGTTG CCTTACCGCT TGGCTATAGC	240
•	CCAATATATA GATGGTGGAG GGGGGCAGAT TCGAACTGCC GAACCCGAAG GAGCGGATTT	300
25	ACAGTCCGCC GCGTTTAGCC ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT	360
	Caaaatggtg gagaatgacg ggttcgaacc gccgaccctc tgcttgtaag gcagatgctc	420
30	TCCCAGCTGA GCTAATTCTC CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG	480
	CCGTGAAAGG GCGGTGTCTT AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGACT	540
•	CGAACCTTAC GACCGATCGG TTTAACAGCC GATAGCTCTT ACCACTGGAG CTACTGTGGG	600
35	ATTAATATTA TGCCTGGGCA ACGTTCTTAC TCTTAGCGGA ACGTTAAGTT CCGACTTACC	660
	ATCCGACGCT AAGGAGCTTT AACTTTCTng TGGTTCCGGC ATGGGGGGAA CAGGTGGT	718
•	(2) INFORMATION FOR SEQ ID NO: 3763:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3763:	
50	THEACTCACE GEAGATTTTT AAGTECTGTG EGTETGEEAG TTEEGGEACE CEGGEACTAT	. 60
50	AAAAATGGAG CAGAAGACGG GATTCGAACC CGCGACCCCA ACCTTGGCAA GGTTGTATTC	120
	TACCGCTGAA CTACTTCTGC ATATGCGGGT GAAGGGAGTC GAACCCCCAC GCCGTAAGCT	180
55		

	·	
	AGGATTCGAA CCTCTGGACC CTCTGATTAA AAGTCAGATG CTCTACCAAC TGGAGCTAAT	300
	GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GGAACCCCCA ACCTACTGGA TTTACAAGTT	. 360
5	CAATTGCTCT ADCAATTTGA GCTAAGGCCG GGCAATATGT	400
	(2) INFORMATION FOR SEQ ID NO: 3764:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3764:	
	TTAAAGTATT CCCAATTATA ATTCTTCATG ATTTTCTTAT TGGATTTCGA ATTTGGTTTC	.60
20	ATGCATTGAT GTCTCAAAGA ACATGATGAA CAGTCATCAC ATTCATATAG TTTGAAGTCT	120
	CGTTTAAAAC CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA	180
-	TTAGGACATA TAAATTCATT ATTAAGTTCG TCATATTTCC AATTTTGAGT GTTGAAAATG	240
25	CCACTTTTAA ACTTTCTAGT TTTATCTTTA ATAAACATGC CATACGTAAT AAGTGGCGTT	300
	TTATTAAAAT CATCTATAAT AGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT	360
30	ACAATATACT CTGGTAAATA ACCGAAGGAT TTTGAATCAT TGTTAAAAAT GGGATTAATG	420
	TTCTAGTATC TGTTGGGTTT TGAAATAGGT CATAGGATAA AACAAATTG: GAATTTGTCG	480
	CTATTTGGTA AATTGGTATC CTGGCTTAAG TTGGGCCATT TTTCCATATG GGCCTTCCTT	540
35	CCATTCTCCA TAAAAGTTGG CATCATGGAT CCAGATCCnG TTTTAGGAAA ACCTAATTCC	600
	AACCTTTAAG	610
•	(2) INFORMATION FOR SEQ ID NO: 3765:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3765:	
	CTTCTTGGTG CTGCATATCC CCTACAATAA TTAAACCTTT TTTCTTATTT AAAATGTGTC	60
50	TTAATGCCGA TGCATCTATA CTTTTTTGAT AGTGCGGTAA AATCTTCATC TCAGANGTTA	120
	ACAATTCTGT TGCATTCAAA TCAGGTGTTA ACGGATCTCT AAATGGCAAG TTAAAATGAA	180

	CACAATGGTC TCTTTACTAT CATCCGCAAT AGGCATATCG AACTCATAHC TTACATAATT	300
	ATTAAACATA TTTACTTGAT TAATCGCTTG TGGTGCGCCT ACAnTTCTTA ATTCAGCGGA	360
. <i>5</i>	CGGTCACTTG TTAAAACGGT TTAAGGTATT CTACTAATTn	400
	(2) INFORMATION FOR SEQ ID NO: 3766:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3766:	
	Chittaacct tittaaggaa teetgetaat gegggttitg geattitega hintitegta	60
20	tCTCACGCAA tCTTGGTGGT CATTCAGTTC GTATATGGCA TCCATTAAGA CGCGAAGATC	120
	AAATGGACTA TTGATGACTT CTGGAATACC ACGATCTATA TTTAGTAATT GATAAACAGC	180
	TTCCATGGCA GTACGAACCG AATATTCTGT TGTAAATACA GTGTCTCGCT CTGTTTCTGC	240
25	AAAGTTACCA ATAAATGCTA AGTTCTGAGA TTGATGCGGG ACGACTAAAG GTCTGTCGCC	300
·	GATAGCACGC GTCATGAAAT AAGATGTGAT ATATGGCATA TAAACAGGGA ATCGTATTAG	360
30	ATGCATGTHT TGCTAAGTCT TCAATTTTGG TCAGTTGATA CACCTAAGTG GATACAGCCA	420
	TTCTTGGCAT ATTTCATTAC CACTACATnC T	451
	(2) INFORMATION FOR SEQ ID NO: 3767:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3767:	
	ACACGTGAAC GTCTTCAAAT GGAAGTACGT GACGTTCACT ACTCTCACTA TGGCCGTATG	60
45	TGTCCAATTG AAACACCTGA GGGACCAAAC ATTGGATTGA TTAACTCATT ATCAAGTTAT	120
	GCACGTGTAA ATGAATTCGG CTTTATTGAA ACACCATATC GTAAAGTTGA TTTAGATACA	180
50	CATGCTATCA CTGATCAAAT TGACTATTTA ACAGCTGACG AAGAAGATAG CTATGTTGTA	240
**	GCACAAGCAA ACTCTAAATT AGATGAAAAT GGTCGTTTCA TGGATGATGA AGTTGTATGT	300
	CGTTTCCGTG GTAACAATAC AGTTATGGCT AAAGAAAAAA TGGATTATAT GGATGTATCG	360

(2) INFORMATION FOR SEQ ID NO: 3768:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3768:	
-	CCTACGACCG ATCGGTTAAC AGCCGATAGC TCTACCACTG AGCTACTGTG GATTAATATT	. 60
15	ATGCCTGGCA ACGTTCTACT CTAGCGGAAn TAAGTTCGTA CTACCATCGA CGCTAAGGAG	120
	CTTAACTTCT GTGTTCGGCA TGGGAACAGG TGTGACCTCC TTGCTATAGT CACCAGACAT	180
	ATGAATGTAA TTTATACATT CAAAACTAGA TAGTAAGTAA AAGTGATTTT GCTTCGCAAA	240
20	ACATTTATTT TGATTAAGTC TTCGATCGAT TAGTATTCGT CHGCTCCACA TGTCACCATG	300
	CTTCCACCTC GAACCTATTA ACCTCATCAT CTTTGAGGGA TCTTATAACC GAAGTTGGGG	360
	AAATCTCATC CTGNAGGGGG CTTCATGCTT AGATGCTTTC	400
25	(2) INFORMATION FOR SEQ ID NO: 3769:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3769:	
	CTTGACCGAA GTTCTTACCT ACATCACCTA AATTAATGAC ATGTCCACCA GTCATATACT	60
	CTAATCCATG GTCGCCGATA CCTTCAACGA CAACATCTAC ACCACTATTT CTAATACAGA	120
40	ATCTTTCTnc TGCACTACCG TTAATAAATG CCTTACCACT TGTCGCACCA TAGAATGAGA	180
	CGTTACCAGC AATAATTTCA TTTTGTCGTT CTTCAAAAGG TGCTTTGACA ATGACCGTAC	240
	CACCAGATAA TCCTTTACCA ACATAGTCAT TCGCATCTCC AGTATGATGA ATCATTAAGC	300
45	CTTTCGGTGC ATATGCTGCA GGACTTTGGA CCAGCATGAC CATTCGTATA AACATTAATT	360
	GTATTTCAG GGAGGTCCTG CTTCTCCATA TTGTTTCGGA	400
50	(2) INFORMATION FOR SEQ ID NO: 3770:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3770:	
5 .	CATTACGTAA TTAAAAGATA GTCATTAAGA GAGGNTGATA ACCATGCAAG AAGCATACAT	60
	TGTAGCTTAT GGGCGTTCAG CGCAGCGAAA CAAAGCAAGG CGCATTATTC CACGAAAGAC	120
	CTGATGATGT CGCAGCCAAA GTATTACAAG GCGTATTGAA ACGTATTGAC GGAAAATTCA	180
10	ATAAGAATAT GATTGAAGAT GTCATTGTTG GTACGGCTTT TCCAGAAGGA TTACAAGGCC	240
	AAAACATTGC ACGAACGATT GCATTGCGTG CGGGATTATC TGACACGGTA CCGGTCAAAC	300
15	AGTGGAATCG CTACTGCTCA TCCAGGNTTT ACAAACCATT CGCGATTGCA GGCCAATCAA	360
15	ATTATGGCNG GTCCAAGGAG ATATACTTGT TAGCTGGTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3771:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3771:	
	ACTCTCTTGC ANTAAGGGCA GGGAATGACC GATGGGATTA AAAGATCAAG CTGTTACCTG	60
30	GGGAAGGTAT TTTCATCAAT TTCCAGAACT ATCCGATAAA GAATTTAAGA CTACACAAAA	120
	AATTAAAGAT ATTTTAACAG AACATCATAT TAGAATATTA GACTTACCAC TTGCGACTGG	180
35	GCTTGTTGCT GAAGTGGGAC AAGGTCTGAG TTGTATAGCT GTTCGGGCTG ACATTGATGC	240
	TTTACCGATT CAAGAGCTTG TTGAACAGGA TTTTAAATCT GAAAATGAAG GTGTTATGCA	300
	TGCGTGTGGT CATGATATTC ACATGGCTAG NATTTTGGCT ACAGCTGGTA AAATTAAAAG	360
40	AGATTGAGGG CACTCTTACT GGGCGTGTTA AATCCATTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3772:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3772:	
	TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC GGTCTCAATG CGGCTCATCG	60

	GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG	180
	CTTACTGATT TAGGTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC	240
5	GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTGCTTT TTATTTTGAC GTTTTAGACA	. 300
	TAAAAAAAA AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTT TGCCTGGGCA	360
	ACGTTCTACT CTAGCGGGAA CGGTAAGTTC GGACTTACCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3773:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3773:	
	TTGATATTCC TGTACCACCT ATAATCGTTT TAATCGATGG GGGGACGCAT AGGNATAGGC	60
	GACGTGCGAT TGGATTGCAC GTCTAAGCAG TAAGGCTGAG TATTAGGCAA ATCCGGTACT	120
25	CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGTGTCT TCGAGTCGTT GATTTCACAC	180
	TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC CGCAAACCGA CACAGGTAGT	240
30	CAAGATGAGA ATTCTAAGGT GAGCGAGCGA ACTCTCGTTA AGGAACTCGG CAAAATGACC	300
	CCGTAACTTC GGGAGAAGGG TGCTCTTTAA GGTTAACGCC CAGAAGAGCC GCATGGAATA	360
	GGCCCANCGA NGTTTATTCA AAAACACAGT CTCTGCTAAA	400
3 5	(2) INFORMATION FOR SEQ ID NO: 3774:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) analyzina processmentow, can to Mo. 2274	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3774:	
	TACTTAGACA ATCGAAAGTG TACATTATTA AATTATCATT TCCAGTTCTA CTCTAGCGGA	60
	ACGTAAGTTG GCTACCATCC TCGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	120
50	CTTTCCTCTC CTTCGGCTCT CACTTACTCA TTTAGCTCTA CTAAACTCGT TGCGTTCTTT	180
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC CATTTTTCTT TGTGTTTGCT	240
	TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG CGGTCTCAAA TGCGGCTCAT	300

	GACGCTAAGG AGCTTAAACT TCTGTGTTTC GGCATGGGGA	400
	(2) INFORMATION FOR SEQ ID NO: 3775:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) iopologi: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3775:	
15	CGGTTTATCA AGAATGGAAA GAGTTGTACG TGAAAGAATG TCAATTCAAG ATACTGAGTC	60
	TATCACACCT CAACAATTAA TTAATATTCG ACCTGTTATT GCATCTATTA AAGAATTCTT	120
	TGGTAGCTCT CAATTATCAC AATTCATGGA CCAAGCAAAC CCATTAGCTG AGTTAACGCA	180
20	TAAACGTCGT CTATCAGCAT TAGGACCTGG TGGTTTAACA CGTGAACGGC TCAAATGGAA	240
	GTACGTGACG TTCACTACTC TCACTATGGC CGGTGTGTCC AATTGAAACA CCTGAGGGAC	300
	CAAACATTGG ATTGATTAAC TCATTATCAG TTATGCACGT GTAAATGGAA TTCGGCTTTA	360
25	TTGAAACACC ATATCGTAAA AGTTGATTTG GnTACACAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3776:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3776:	•
	AGCTTACTTA CAGCTCCCCA AAGCATATCG TCGTTAGTAA CGTCCTTCAT CGGCTTCTAG	60
40	TGCCAAGGCA TCCACCGTGC GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA	120
	GTCAAACGCT CACATACGGC TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA	180
	CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT	240
45	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACnTAG GCGATTATTT CTTATGGAAT	300
	TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCCT GGGTAAAATC TANATTTTAC	360
50	TTACHTATCT AGGTTTTCAA TGTACAAATA ATGGTGGGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3777:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3777:	
	AATTATAAAA TTAAATGGCG GTCTCGACGG GAATCGAACC CGCGATCTCC TGCGTGACAG	60
10	GCAGGCGTGT TAACCnCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	120
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGACTTG	180
	GGTATTCCTC CAAAATTATA TGGACCTTGC AGGACTCGAA CCTGCGACCG AACGGTTATG	240
15	AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA TAATTTTACA ACTAATAAAT	300
	AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA TGAACCGTAC GCTCTAGCCA	360
	GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	400
20	(2) INFORMATION FOR SEQ ID NO: 3778:	
٠	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	• -
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3778:	
	CAAATCCTGC ACCATCAGAA AGTGGGGCAG ATGTTCCTGC AGTCATAGTG CCGTCAGCTT	60
	TAAATACTGT ACGTAATTTG GCTAATGCCT CCATCGTGGT GTCAGGGCGT ATAAATTCAT	120
35	CTTGGTCAAA GATATTTGTG TGTACTTTTG GTCCTGCGTT TGTATATTCA ACTGAGTTTA	180
	CITGTATTGG AATAATTTCA TCTTTGAACC GACCATCACG TTGTGCGTCA TAGGCACGTT	240
	GATGACTTCT GACAGCATAA GCATCTTGAT CTTCGCGTGA TACGTCAAAT TGGGATGCTA	300
40	CATTTTLCAG CAGTTAAACC CATAGGATAT GACGCACCTA TATCATCALA TTGTAAGGTT	360
	GGATTGTTTG TGGGCTTCGT TnGCCACCnn TTGGTACGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3779:	
45 . 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3779:	

	CAATCTAAAT CGTTCAAATT TGGCACAACG ACAAATAAGG CTTCAACACG AATATATTCT	120
	CTCGGTTGAA ACCTTACTTA TTCATTTATT TTTTATAAAT TAGTGACATA ACACTGTATT	180
5	AGCATCTGCA CGATCGGTTG AAATATATGT TACATTTTCT TGCTGCTTAA TAAATGCATC	- 240
	ATAGTAATCA TATTGCGACG AATGATATGT GCCATTCGAT GTATCATTTG GGTTTAGCAA	300
	ACAGCCATAA CCTTCGTCAT ATAAATGTTC ACAGAGCATA AGGGGCGTCA TGTTTTAGAA	360
10	CCACCTTACC TACATAAAAT TmGCCTCCAT AGGGATCATA	400
	(2) INFORMATION FOR SEQ ID NO: 3780:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3780:	
	ATGGnCGGTC TCGACGGGAA TCGCAACCCG CGATCTCCTG CGTGCACACn CAGGCGTGTT	60
25	AACCGCTACA CTACGAGACC ATTAGTAAAA CGGAGGAAGA GGGATTCGAA CCCCCGCGAG	120
	CCGTTAAGCC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	180
^	AAAATTATAT GGACCTTGCA GGACTCGAAC CTGCGACCGA ACGGTTATGA GCCGTTAGCT	240
30	CTAACCAACT GAGCTAAAGG TCCTAAATAT AATTTTACAA CTAATAAATA GTGGCGGTGG	300
	AGGGGATCGA ACCCCCGACC TCACGGGTAT GAACCGTACG CTCTAGCCAG CTGAGCTACA	360
35	CCGCCTTATA TAGTTTGTAA ATAATATGGT GGAGACTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3781:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3781:	
	AACCACATCT TTATCAAGTT TCATATTCGG AATACCATAC ATTAATAAAC CGCCTGATTC	.
		60
50	TCTAGCACGT TCATAAATAG TTACTTGATA TCCTAGTAGA TTAAGTTCTT CAGCAGCAGC	120
	TAATCCTGCT GGACCGCTTC CAACGATTGC CACTTTTTCA TCTCTACGGC GACTCGGAAC	180
	TTTCGGCGCT ACCCAACCAT TTTCAAAAGC TTCATCAATA ATTGTGCGTT CAATACCTTT	240

	TACACGCCCT GTAAAGTCAG GAAAGTTATT TGTTTCGCTT AAGCGTCATA AGCAGTTTTA	360
	AAATCTTGAT GATACACCAA GTCGTCCAnT CAGGATGGAG	400
5	(2) INFORMATION FOR SEQ ID NO: 3782:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3782:	
	ACATGATGCG TGTGGTATTG GTTTTTATGC GAATATGGAT AATAAAAGGT CTCACGACAT	60
	CATTGATAAA TCGCTTGAAA TGTTGCGACG CTTAGATCAC AGGGGCGGGG TCGGCGCAGA	120
20	TGGCATCACT GGTGATGGCG CAGGTATTAT GACTGAAATA CCTTTTGCAT TTTTCAAACA	180
÷	ACATGTAACG GACTTTGATA TCCCAGGTGA AGGTGAATAT GCCGTGGGGT TATTTTTTC	240
	CAAAGAACGC ATTTTAGGTT CTGAACATGA AGTAGTTTTT AAAAAATATT TTGGAAGGCG	300
25	ANGGGTTATC AATTCTTGGT TAACGTAATG TACCAGTTAA TAAAAGATGC CATTGCCTAA	360
	ACCATGTAGC AGATACGATG GCCAGTCATT CCACCAAGTG	400
30 35	(2) INFORMATION FOR SEQ ID NO: 3783: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3783:	
40	AATCGGGTGA TGTTGGACGA TGATACGCAG GGAACGTTGC GTTATTCGTA TATGAAATAT	60
40	TGGATAACTG TTTTAACAAT GATGGTAGAG ATATTTCATC ATTTGTAACA TCGTCAATTT	120
	TGATATTGTG ATGATTTAAC ATAACGACAT CATCGATATT GAATTGGTAT GAAAAACCTG	180
45	CTGTTGCTGA ATCTGTTAAT TTGGCTCCAA TATTTAAAAT TAAATCGCTG TTGTCCACAT	240
	AATCTCGTAT TTTATCTTCG GCAATTTTCC CATCGTAAAT ACCCATATAA TATGGATTTT	300
	CCTCATTAAA AGCACCTTTT CCTAATGAAA GTTGTGCTAC TGGGTATCTG TGTTTGAnTT	360
50	ACAAAATCTT CNAAGTCCTG GATGGAGGTG AAAACTGTTA	.400
,	(2) INFORMATION FOR SEQ ID NO: 3784:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3784:	
10	GGTACTAAGA TGTTTCAGTT CTCCGGGTGT GCCTTCTGAT ATGCTATGTA TTCACATATC	60
	GATAACATGA CATAACTCAT GCTGGGTTTC CCCATTCGGA AATCTCTGGA TCAAAGCTTA	120
	CTTACAGCTC CCCAAAGCAT ATCGTCGTTA GTAACGTCCT TCATCGGCTT CTAGTGCCAA	180
15	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	240
	CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	300
	TTTAAAATAA TTTAACTCAT TGTCTGCNAA ACGTTTTCTT TTATAAAAAG ANTTTAAACG	360
20	CGTTAATGAA GCTGTGAGTG TTCCTTCGAA CACGAGnnGA	400
	(2) INFORMATION FOR SEQ ID NO: 3785:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3785:	
	TACTGGAATG ACATCAGATA CATGTGCACC ACCAATCCAT TTCTTTTCAC CATTGATAAC	60
3 5	CCAAGTATCG CCTTGnCGTT CAGCGACTGT TTCAAGACCT CCCGCAACGT CCGAACCGTG	120
	TTCTGGTTCA GTTAAAGCAA AGCATGTACG CAGTTCATGT GACTGTAATT TAGGTACATA	180
	TTTCGCAATT TGTTCTTTGC TACCTCCGAA ATAGAAAGTG TTATGCCCTA AACCTTGGTG	240
40	AACACCGAGT AGGGTAGCTA AGGAAATATC AAATCGCGCG AGTAGGTAAG ACATGAAAAA	300
	CTGAAATAGT TGACTAGGCA TTTTGGCGTT TGGACGATCC TTGTAAAGTA ATGGATTGTT	360
45	AAAATAATTT AATTCTCCCA GTCTTTAAAT AGTCCTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3786:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCATTTGACG AATTTCATTG TTATTCAAAA TTCTATCTAA TCGTGCTTTT TCAACATTTA	6(
5	ATATCTTACC TCGTAATGGT AAAATCGCCT GCGTTCTAGA GTCACGACCA GATTTTGTAG	120
	ACCCCCGGC AGAGTCCCCT TCGACTAAGA AAATCTCACA TTCTTCAGGA CTTTTACTAG	180
	AGCAATCGGC TAATTTACCT GGAAGCTTGC TACATCTAAC GCTGATTTAC GACGTGTTAC	240
10	TTCACGCGCT TTTTTCGCAG CAACACGTGC ACGGCCCGCC ATAATACCTT TTTCAACCAC	300
70	TGTACGTGCG ACTTGTGGGA TTTTCATATA AAAATCGTTC AAAGTGCTCT GAGAATAATT	360
	TATCTACAAC TTGACGCACT TCAGAATTAC CTAATTTTGT	400
15	(2) INFORMATION FOR SEQ ID NO: 3787:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3787:	
25	TCTCTTCCCG TTTCGCTCGC CGCTACTAAG GGAATCGAAn TTTCTTTCTC TTCCTCCGGG	60
	TACTAAGATG TTTCAGTTCT CCGGGTGTGC CTTCTGATAT GCTATGTATT CACATATCGA	120
t	TAACATGACA TAACTCATGC TGGGTTTCCC CATTCGGAAA TCTCTGGATC AAAGCTTACT	180
30	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT AGTGCCAAGG	240
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA CCATTTTTAT AAGTCAAACG	300
05	TTAACATGAA GTTACGTTCT TTTATAAAAA GATTTAAACG CGTTATTAAT CTTGTGAGTG	360
35	TTCTTTCGGA CACTAGCGAT TATTTCTnAT GATnCAAGCT	400
	(2) INFORMATION FOR SEQ ID NO: 3788:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3788:	•
	ATTCTCTGCT TTCATCTCAT TTGGTGACTA ATACCCTGAT TTTGTCCAAG TAAATGCTTC	60
50	ATAAAGTATT CTTGACCTTT TGCAGAACTT GAAATTAAGT TTGAACGCCA TATATAATGA	120
	TTTTGGATGA TTCTTTTCA AATCAGGATC TCTATTGCAA ATTGTGTTTG TmTTGATTTC	180

	TCTTCTGCAA ACAACAACT ATTTTTATTA AATTGTGGAT ATGATGGTAA	CCAACCAAGT	300
	CTAGCTGCTA ANACATTATA ATCAGCTGGA TGTTGATGCT TTAACTCCTC	TGTTTTAGCT	360
5	AATGGAGATT TTAAACGATC TACATTTGAC TCTTCATAAT		400
	(2) INFORMATION FOR SEQ ID NO: 3789:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3789:		
	CGGTTTCTTA ATTATGAACG CAACTATGAA TGGCTTATTA ACTATCACGG	GCACATTGGC	60
20	AAAAGATCAG CTTGCACAAA ATGGACAAGG CATGGTGCTC GGTATACAAA	CGGTTGAAAC	120
	CGGTGTTTTT GGCGGGATTA TCACAGGTAT TATGACCGCA ATACTTCACA	ACAAATATCA	180
	CAAAGTGGTA TTACCACCGT ATTTAGGTTT CTTTGGTGGC TCTAGATTTG	TCCCTATTGT	240
25	CACAGCATTT GCCGCAATCT TTTTAGGTGT ATTGATGTTT TTCATTTGGC	CAAGCATACA	300
	ngccggcatt tatcatgttg gtgggatttg taacgaaaac aggtgccatc	GGTACTnTTG	360
	TTTATGGGTT CATCTTTAGG ATTGTTAGGT CCACTCGGTT		400
30	(2) INFORMATION FOR SEQ ID NO: 3790:		
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 716 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3790:		
40	ATAATGGACT GTGCCGnGTA ATAATATngn TCTCTAAAAG TTGTATTTTA	AAAATAGTTC	. 60
	TTTAAATTAT ATACCCACCA CATTTGGTGA KGAACCTAAA AAAAAGCACT	TCCCAAAAAT	120
45	GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT GACCCTCTGA	TTAAAAGTCA	180
	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT	CGAACCAACG	240
	AGTGACGGAT CAAANGTCCG TTGCCTTACC GCTTGGCTAT AGCCAATATA	TAGATGGTGG	300
50	AGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGATT TACAGTCCGC	CGCGTTTACC	360
	ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG	GAGAATGACG	420

	CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG CCGTGAAAGG GCGTGTTCTT	540
	AACCGLTGAC CAAGGAGCCA TGGCTCACCA GGTAGGACTC GAACCTACGA CCGATCGGTT	600
5	TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGGATTA ATATTATGCC TGGCAACGTT	660
	CTACTCTAGC GGAACTAAAG TINGAACTNA CCATCGACGC TAAAGGAGCT TAACTT	716
	(2) INFORMATION FOR SEQ ID NO: 3791:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3791:	
20	TGTCATGACG TTATTTGAAG ATATCGCGCA AGTCTTTTTA AAGGTAACAC TATCATTTAT	60
	GCAATACGGC GCATTACCAG AGTTGCATGG TCAAAATATA TTGTTGTCAT TTGAAGATGG	120
	ACGTGTACAA AAATGCGTGT TACGTGATCA TGATACTGTC AGAATTTATA AACCATGGCT	180
25	AACAGCACAT CAGCTTTCAT TGCCGAAGTA TGTCGTCAGA GAAGATACAC CTAATACGCT	240
	AATTAATGAG GATTTGGAAA CATTCTTTGC nTGATTTTCA AACATTAGCT GTGATCGGTA	300
	AATCTATATG CCATTATTGA TGCAATTCCA AGATTTATTT GGTGTGAAGT GNAGCATGAA	360
30	CTTATGTCGT TGTTAAAACA AATTTTGAAA AAAGGAAGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3792:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3792:	
	TTTTCACACA ATACATGGAC ACCATGGTTC AATGCTTCTA TAGAAAGATC AGCATGGAAT	60
45	TTATTAGGTG TACAAATGAC CACCGCATCA ACAAGTTTAA ACAGCTCGCT AGGTGTCTCA	120
	ACTGCATGAG GTATATTAAA GCGCTTCGCA ACATCAATCA TCTGCACTGT ATTAATATCT	180
	TGTACTGCAA CTAATGAGAC TGTGTCTTTG AGTTTCAGCA ATGCTGGAAT ATGACGGTCT	240
50	TGTGCAATAC CACCAACACC TATCACACCA ACTTTTAATT TTGTCATGAT GTGCCTCCTT	300
	ACCGTATGAT GTLATTCAAA GTAAATTGCT TTGCCTGATT TKGCAGACTG ATAAATYGCT	360

	INCO	425
	(2) INFORMATION FOR SEQ ID NO: 3793:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3793:	
15	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG	60
	AGTGACGGAG NAAAGGTCCG TTGCCTTACC GCTTGGCTAT AGCCCAATAT ATAGATGGTG	120
20	GAGGGGGCA GATTCGAACT GCCGAACCCG AAGGAGCGGA TTTACAGTCC GCCGCGTTTA	180
20	GCCACTTCGC TACCCCTCCA GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG	240
	ACGGGTTCGA ACCGCCGACC CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT	300
25	CTCCAAAATA ATGACTCCTA CGGGACTCGA ACCCGTGTTA CCGCCGTGAA AGGGCGGTGT	360
	CTTAACCGCT TTGACCAAGG AGCCATGGCT CCACAGGTAG	400
	(2) INFORMATION FOR SEQ ID NO: 3794:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3794:	
40	ATCAGCAGGG TTGAAAGTAC CTGCTGCAAC AGTAATACCA TTATTAGTTC CAGCAATACC	. 60
	TGCTACAGTT GCTGCAGATG CTTCTTTCAC CCATGGACTC GTATTATTGC GACGTGTAAA	. 120
	TGTHTCACAA CGTTACCATT ACGTTTAATA ACTAATTTAT CAGCGTATGT CGTTACGTTA	180
45	CCGGCATGTG TATTCACTGT TTGGTTTGCT CCAGGTGCAA TTGTAATCGC TCCTGCCGCT	240
	GTTTCAGTCA CAGTTGGTTT CGCTGGTTGC ACATCTTTTA CTACAAATTT CGCTGGTAAA	300
	GATGTTGCAA AAGTATGTCC GTTATAGATG ACGTCCATAT TTTGCGTTAA CGACTTTAGC	360
50	CACATTCGGT TTATTCATAG CGGACCAGTT TGCGTCCATT	400
	(2) INFORMATION FOR SEQ ID NO: 3795:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3795:	
	GCGCCGAAAA TGTACCGGGG CTAAACATAT TACCGAAGCT GTGGATTGTC CTTTGGACAA	60
10	TGGTAGGAGA GCGTTCTAAG GGCGTTGAAG CATGATCGTA AGGACATGTG GAGCGCTTAG	120
	AAGTGAGAAT GCCGGTGTGA GTAGCGAAAG ACGGGTGAGA ATCCCGTCCA CCGATTGACT	180
	AAGGTTTCCA GAGGAAGGCT CGTCCGCTCT GGGTTAGTCG GGTCCTAAGC TGAGGCCGAC	240
15	AGGCGTAGGC GATGGATAAC AGGTTGATAT TCCTGTACCA CCTATAATCG TTTAATCGAT	300
	GGGGGGACGC AGTAGGATAG GCGAACGTGC CATTTGATTG CACGTCTAAA GCAGTAAAGC	360
00	TGAGTATTAG GCNAATCCGG TACTCGTTNA AGGCTGAACT	400
20	(2) INFORMATION FOR SEQ ID NO: 3796:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3796:	
	GCACATGTTG CCATGCTTGA GCTAAATTAC CTTGCATCAT TGCTAGCTTT TCTTGTATTA	60
	ACTGATATTT ACTAATTGGT TTGCCGAATT GCTTACGCTC AGTGACATAA TCTAATGTGG	120
3 5	CACGTAAAGC GCCACCATAC CACCTGTAGC CATATAAGCA ACGSCTGCTC TCGTTGAATA	180
	AAGAATTTTG GCAATATCTT TAAAGCTTGT TATGTTTTGT AAGCGATCCG CTTCATCTAC	240
40	TTTGACATTA GTTAATTTAA TTAGGGCGTT AGGAACAATG CGAAGTGCGA TTTTATTATC	300
	AATGACTTCA ATATCGACGC CATCTTGTTC TGGTCTGACT ACAAAGCAAT GGGGTTTGCC	360
	AGTTTCMGTT ATTTACTGCG AATACTGGGG GGGMGMGGTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3797:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i></i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3797:	

	GGAACACCAG TGGCGAAGGC GACTTTCTGG TCTGTAACTG ACGCTGATGT GCGAAACGTG	120
	GGGATCAAAC AGGATTAGAT ACCCTGGTAG TCCACGCCGT AAACGATGAG TGCTAAGTGT	180
5	TAGGGGGTTT CCGCCCCTTA GTGCTGCAGC TAACGCATTA AGCACTCCGC CTGGGGAGTA	240
	CGACCGCAAG TTGAAACTCA AAGGAATTGA CGGGGACCCG CACAACGGTG GGAGCATGTG	300
	GTTTAATTCG AAGCAACGNA GAGAACCTTA CCAATCTTTG ACATCCTTTT GACACTCTAG	360
10	GAGATAGAGC CTTCCCTTCG GGGGGACNAA GTGACAGTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3798:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3798:	
	CACAAAACAA GCCAAGCAAA ACAAACGCAT ATAACGTAAC AACACATGGA AACGGCCAAG	60
25	TATCATATGG CGCTCGCCCA ACACAAACA AGCCAAGCAA AACAAATGCA TACAACGTAA	120
	CAACACATGC AAACGGTCAA GTGTCATACG GAGCTCGCCC GACATACAAG AAGCCAAGTA	180
30	AAACAAATGC ATACAATGTA ACAACACATG CAGATGGTAC TGCGACATAT GGGCCTAGAG	240
	TAACAAAATA AGTTTGTAAC TCTATCCAAA GACATACAGT CAATACAAAA CATTACGTAT	300
	CTTTACAACA GTAATCATGG CATTCTATGG ATGCTTCTAA CTGGAATTAA AGCATCGGAA	360
35	CAATCGGGAN GCATATTCT AAAATTATTT ATTCCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 3799:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3799:	
	CTTCGCCGAT ATGGGGGAAG CTAGGTGATA AGATCAGCCG AAAATGGATG GTGTTAAGAG	60
50	CGTTACTTGG TTTGGCGGTA TGCTTATTTT TAATGGCATT GTGTACGACA CCATTACAGT	120
	TTGTACTTGT GAGGTTATTG CAGGGACTAT TTGGTGGTGT TGTTGATGCA TCAAGTGCGT	180
	TTGCGAGTGC AGAGGCGCCA CTGAAGGATC GTGGAAAGGT ATTAGGAAGA CTGCAAAGTT	240

	TTTTAGTGCG TTACTGATGA GTATTGCCGT TATTACTTTT ATTGTCTGTn TTTTCGGTGC	360
	CATTAAAATG ATTGAAACGA CACATATGGC CAAAnnCACA	400
5	(2) INFORMATION FOR SEQ ID NO: 3800:	
10 -	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3800:	
	GGAATCTATT ATATTAGATG TAAAAAATTT CGCGCAAAAT GTGTTAGGTA AAGGTGTCAT	60
	TGTCGTCAAT GATGTGCCTG GCTTTGTCGC AAATAGAGTC GGCACGCAAA CAATGAATGA	120
20	TATTATGTAT CGCGCCGAGC AACACAAGAT AAGCATTGTA GATGTGGATG CTTTAACTGG	180
	GCAAGCGATT GGTCGTCCTA AAACAGGTAC ATATGCGCTA TCTGACCTAG TCGGTTTAGA	240
	TATTGCAGTG TCTGTAAATT AAAGGCATGC AACAAGTACC TGAAGAAACA CCTTATTTTC	300
25	ATGATGTCAA AATGTAAATA CGTTGTTTGA CCATGGGCGC ACTCGGACGT TAANNCGNAA	360
	ACCAAGGGTT TTTACCAAAA AGGGTTAAAG GGNAACTTAA	400
30	(2) INFORMATION FOR SEQ ID NO: 3801:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3801:	
40	TGCAGGCGTT TCTGGTCTGC ATAGTTTACG CATACGACCT GCGCGATCCT TATCTGGTAA	60
	TAAATTGTAA AACGATAGTT CCCGTTGTTC CTAATAGTTG TATTCTATCT GACGCATAAT	120
45	GTGAAAAATA ACCTGCCATC TCTAAGCCCG GTCTTGATAT ATCAGCATTT TTAATTGGCT	180
	TCGATAGTCC TTCTTCACCA GCGATTAAAT CTAACTTTAA TGTTTCAACT AGTTTTTCTG	240
	TCGTTAACAT GGGTTCACCT CAATTGTATT TACCCTACTC TTACATCTCT TCTTATCATA	300
50	TCAAAAATAT AACACCAATC TACATTGAAA AGCTAAANTA AATATTAATG TTCATTATTG	360
	TTATHATTTT ACAAGTCAAT ATCATCATAA TTTATTGCTG	400
	(2) INFORMATION FOR SEQ ID NO: 3802:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3802:	
10	TTTCACTTTT GAACCATGCG GTTCAAAATG ATTATCCGGT ATTAGCTCCG GTTTCCCGAA	60
	GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC ACCCGTCCGC CGCTAACATC	120
	AGAGAAGCAA GCTTCTCGTC CGTTCGCTCG ACTTGCATGT ATTAGGCACG CCGCCAGCGT	180
15	TCATCCTGAG CCAGGATCAA ACTCTCCATA AAAATTATGA TGTTTGATTA GCTCATAAAT	240
	ACTAAATAAT GTTTGTAACT TATAGTTACG TTTTTTGGAA TTAACGTTGA CATATTGTCA	300
20	TTCAGTTTTC AATGTTCATT TTTCTTACCG ACAAGAATTA ATTATACATT TTATTAACAT	360
	TTAAGTCAAT AACTTTNTTT ATCCTGTCCA TTTNATTTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3803:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803:	
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	60
3 5	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	120
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	180
40	AACCGAAGTT GGGAAATCTC ATCTTGAGGG GGGCTTCATG CTTAGATGCT TTCAGCACTT	240
	ATCCCGTCCA CACATAGCTA CCCAGCTATG CCGTTGGCAC GACAACTGGT ACACCAGAGG	300
	TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTn TCAAATTTCC TACGnCCAnG	360
45	ACGGATAGGG ACCGAACTGT TTTCACGACG GTnCTGAACC	400
	(2) INFORMATION FOR SEQ ID NO: 3804:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGTICACTCA CICCAGATGT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCACT	60
	ATAAAAATGG AGCAGAAGAC GGGATTCGAA CCCGCGACCC CAACCTTGGC AAGGTTGTAt	120
5	TCTACCGCTG AACTACTTCT GCATATGCGG GTGAAGGGAG TCGAACCCCC ACGCCGTAAG	180
	TTAGWATCCT AAGTCTAGTG CGTCTGCCAA TTCCGCCACA CCCGCAAATG GTGAGCCATA	240
10	GAGGATTCGA ACCTCTGACC CTCTGATTAA AAGTCAGATG CTCTACCAAC TGAGCTAATG	300
10	GCTCTTCCAT GGTGCCGGCC AGAGGACTTG AACCCCCAAC CTACTGATTA CAAGTCAGTT	360
	GCTCTLACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG AATGACGGGT	420
15	TTCGAAACCG CCGnACCCTC TGGCTTGTTA AGGGCAG	457
	(2) INFORMATION FOR SEQ ID NO: 3805:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		*
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3805:	
	ACTITITATI TIGACGITIT AGACATAAAA AAAGCICACG GICTCAACTI GCCIGGCAAC	60
30	GTTCTACTCT AGCGGAACGT AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	120
	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	180
	CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT	240
35	TTCTTTGTGT TTACTTTTTA TnTTGACGTT TTAGGCATAA AAAAAAGAGA CCTTGCGGTC	300
	TCAATGCGGC TCATCGCATC CATTTTTGC CGGGCAACGT TCTACTCTTA GCGGAACGTA	360
	AGTTGGCTAC CATCGTCGCT AAAGACCTTT TTGGACTGTG	400
10	(2) INFORMATION FOR SEQ ID NO: 3806:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
io	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3806:	
-	GTTATGAAAG TCGCGCTTAA AATGCGTTAA TGTGACAAGG ATAATTCAAC ATCGTTTCAT	60
	TTTACTGAGT CATTGCACTT ATCATACACA TTATATTTAG CATGAGTTAT ATTACTAAAA	120

	TCATTGGCTT AATATTTACA GCGCTTGGTA TTGCAGGTGC CGTATTACCT TTACTGCCAA	240
	CGACCCCTTT TTTACTCGTA GCAGTTTTTT GCTTTGCTCG AAGTTCAGAT CGCTTTTACA	300
5	ATTGGGCnnA TTAATCAAAA AATTTATAAA GAATATGTAG AAAACCTTTn TTTGACATCG	360
	AGGCTACACG CTACAACAGA AAATTGAAAA TTTAATTAGC	400
10	(2) INFORMATION FOR SEQ ID NO: 3807:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3807:	
20	AGGAGAACAT GCTGTTACAT TTGGAGAGCC TGCTATTGCA GTGACCGTTT AACGCAGGTA	60
	AAATCAAAGT TTTAATAGAA GCCTTAGAGA GCGGGAACTA TTCGTCTATT AAAAGCGATG	120
	TTTACGATGG TATGTTATAT GATGCGCCTG ACCATCTTAA GTCTTTGGTG AACCGTTTTG	180
25	TAGAATTAAA TAATATTACA GAGCCGCTAG CAGTGAACGA TCCAAACGAA TTTACCACCA	240
	TCACGTGGAT TAGGATCGAG TGCCAGCTGT CGCGGTTGCT TTTGTTCGTG CAAGTTATGG	300
30	ATTTTTTAGG GNAAATCATT AACGAAAGNA AGAACTCATT GGAAAAGGCT NATTGGGCCA	360
30	GAAGCAAATT GCCACATGGT AAAACCAA	388
	(2) INFORMATION FOR SEQ ID NO: 3808:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 447 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· .
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3808:	
•	ATGCGCAGAG TATATGGAGG AACACCAGTG TCGAAGCGCA CTTTCTGGTC TGTAACTGAC	60
45	GCTGATGTGC GAAACGTGKG GGATCAAACA GGATTAGATA CCCTGGTAGT CCACGCCGTA	120
	AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG TGCTGCAGCT AACGCATTAA	180
50	GCACTCCGCC TGGGGAGTAC GACCGCAAGT TGAAAACTCA AAGGTATTGA CGGGGACCCG	240
50	CACAAGCGTG GGAGCATGTG GETTAATTCG AAGCAACGnn GAGGAACCTT ACCAAATCTT	300
	GACATCCTTT GACAACTCTA GAGATAGAGC CTTCCCCTTC nGGGAACAAA TGACAGGTGG	360

	ACCCTTAAGC TTATTTGCCA TCATTAA	447
5	(2) INFORMATION FOR SEQ ID NO: 3809:	
·	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3809:	
15	CCAACTGAGC TACTGAACCA TAATAAAAAT GTAATGACTG GCGGTCTCGA CGGGAATCGA	60
	ACCCGCGATC TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCTATAAA	120
	ATATTGCGGG AGGCGGATTT GAACCACCGA CCTTCGGGTT ATGAGCCCGA CGAGCTACCG	180
20	AACTGCTCCA TCCCGCGATA ATAAAAAATA ATGGCGGAGG AAGAGGGATT CGAACCCCCG	240
	CGGCCCGTTA AGGCCCTGTC GGTTTTCAAG ACCGATCCCT TCAGCCGGAC TTGGGTATTC	300
	CTCCATTATT ATAGGTAAAT CGCTATTAAT TATAAAATTA AATGGCGGTC TCGACGGGAA	360
25	TCGAACCCGC GATCTCCTGC GTGACAGGCA GGCGTGTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3810:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3810:	
	TGCTTGGTAA AATCTATATT TTACTTACTT ATCTAGTTTT CAATGTACAA ATAATGGTGG	60
40	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT AACCAGCTGA	120
40	GCTATAGGCC CATTTTTTG AATGTTAAAT AAACATTCAA AACTGAATAC AATATGTCAC	. 180
	GTTATTCCGC ATCTTCTGAA GAAGATGTTC CGAATATATC CTTAGAAAGG AGGTGATCCA	240
45	GCCGCACCTT CCGATACGGC TACCTTGTTA CGACTTCACC CCAATCATTT GTCCCACCTT	300
	CGACGGCTAG CTCCTAAAAG GTTACTCCAC CGGCTTCGGG TGTTACAAAC TCTCGTGGTG	360
50	TGACGGGCGG TGTGTACAAG ACCCGGGAAC GNATTCACCG	400
	(2) INFORMATION FOR SEQ ID NO: 3811:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs	

,	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3811:	
	GCTTCATGCT TAGATGCTTT CAGCACTTAT CCCGTCCACA CATAGCTACC CAGCTATGCC	60
10.	GTTGGCACGA CAACTGGTAC ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC	120
	AGCTCCTCTC AAATTTCCTA CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC	180
	TGAACCCAGC TCGCGTACCG CTTTAATGGG CGAACAGCCC AACCCTTGGG ACCGACTACA	240
15	GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGGAACTCT	300
	TGGGGGAGAT AAGCCTGTTA TnCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGnnCTTCC	360
	ATGCGGGAAC CACCGGGATT	380
20	(2) INFORMATION FOR SEQ ID NO: 3812:	
,	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 386 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3812:	
	GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA TGCTTAGATG	60
	CTTTCAGCAC TTATCCCGTC CACACATAGC TACCCAGCTA TGCCGTTAGC ACGACAACTG	120
<i>35</i>	GTACACCAGA GGTATGTCCA TCCCGGTCCT CTCGTACTAA GGACAGCTCC TCTCAAATTT	180
	CCTACGCCCA CGACGGATAG GGACCGAACT GTCTCACGAC GTTCTGAACC CAGCTCGCGT	240
	ACCGCTTTAA TGGGCGAACA GCAACCCCTT GGGACCGACT ACAGCCCCAG GATGCGATGA	300
40	GCCGACATCG AGGTGCCAAA CCTCCCCGTC GnTGTGAACT CTTGGGGGAG ATAAGCTGTT	360
	ATCCCCGGGT GAGNTTTNTC CGTTGA	386
45	(2) INFORMATION FOR SEQ ID NO: 3813:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3813:	

	·	
	CTTGGTACTT CTGGTGTTGG TGGCGTTGGT GTTTCCGGCT CACTTGGTAC TTCTGGTGTC	120
	GGTGGCGTTG GTGGCACGAT TGGAGGTGTT GTATCTTCTT CAATCGTTTG TTGACCTTCA	180
5	TTTTGGCCGC TTACTTTTGG AAGTGTATCT TCTTCAAAGT CAACACTATT GTGTCCACCG	240
	AATTGATAAC TTGGTTTATC TTTATTTGTA TCTTCTTCAA TAATTTCAGT GTGCTTATTG	300
	AATCCGTGAA TATGTGGCAC nTGGTCGAAG TCGATATCAA TGATGTTACC GCCATGTTCA	360
	TACTTAGGTT TGTCTTTTTC TGTAnCTTCC TCGAATGACT	400
	(2) INFORMATION FOR SEQ ID NO: 3814:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3814:	
	TAATTGGGCT ACCATCGTCG CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
?5	TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTChACTA AACTCGTTGC GCnCTTTTCT	120
	CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
	TATTTTGACG TTTTAGGCAT AAAAAAAAGA GACCTTGCGG TCTCAATGCG GCTCATCGCA	240
30	TCCATTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGGCT ACCATCGTCG	300
	CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC	360
35	TTACTCATTT AGCTCTACTA AACTCGGTGC GCTCTTTTCT	400
15	(2) INFORMATION FOR SEQ ID NO: 3815:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3815:	
	TTCTTTCATA TGATTTTTTA GATTTTAGTA AGTCAATAAA GCCAATTTTC TCCAACGATT	.60
	GAATGTAACG TTGATTGATA AATGTATTTC TTGGTAAATC ACCACCCGCT AAAATTGTGG	120
60 ·	CGATATITAA GGCAATATGA TAATCATGGT CGCTAATAAA ATGACCCCGT CTTTGCGCAT	180
	CTAATTGTCC TTGGATCAAT GCTTTGAAGT CTTCACCTAA AGCGATATAT TGATGTCTAG	240

2700

· ·

	GTTGTGCTGT ATTGAAAATA ATCGTATCTG GTATCACGTA AATNACCATA ACGACGTGCC	360
5	TCCAAAGGCA TTTGGTANGA GCCTTCGGCA ATGCCGATAA	400
J	(2) INFORMATION FOR SEQ ID NO: 3816:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3816:	
	CCAATATTTA TATTAATGAA AATAAGATGT TATATTCATT GTTAATTTAA CACATAGTAA	60
	GADAAACAGT CATAAATTGA TTTCTAATTG AAATCATCTT ATGACTGCTT TTTATTATAC	120
20	TTTACATTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TCTTTCTTTG	180
	TGTTTGCTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	240
25	CTCATCGCAT CCACTTTTTG CCTGGCAACG TTCTACTCTA GCGGAAnTAA GTCGGACTAC	300
20	CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG GAACAGGTGT GACCTCCTTG	360
	GCTATAGTCA CCAGACATAT GAATGTAAAT TCATACATTC	400
<i>30</i> ·	(2) INFORMATION FOR SEQ ID NO: 3817:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3817:	
	TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGGG GGGNATTATG AAGCGATGCA	60
•	TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT	120
45	ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA	180
	GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA	240
	TACCGAACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGTAT	300
50	TCATGATAAT TTCTTTGAAT TAGGTGGCCA TTCATTAAAA GCAACGTTAT GGnTGGAATC	360
	GGATAGAGGC ATCTACTGGG GAAACGATTA CCAATTGGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3818:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3818:	
10	TCGGAATCTG GGAGGACCAT CTCCTAAGGC TAAATACTCT CTAGTGACCG ATAGTGAACC	.60
-	AGTACCGTGA GGAGAAGGTG AAAAGCACCC CGGAAGGAAG TTGAAATAGA ACCTGAAACC	120
	GTGTGCTTAC AAGTAGTCAG AGCCCGTTAA TGGGTGATGG CGTGCCTTTT GTAGAATGAA	180
15	CCGGCGAGTT ACGATTTGAT GCAAGGTTAA GCAGTAAATG TGGAGCCGTA GCANAACATG	240
	TTCTGAATAG GGCGTTTAGT ATTTGGTCGT AGCCGNAAAC CAGGTGATCT ACCCTTGGTC	300
	CAGGTTGAAG TTCAGGTAAC ACTGGAATGG AGGACCGAAC CGACTTACGT TTGAAAAGTG	.360
20	AGCGGATGAA CTGAAGGTAG CGGAGAAATT CCCAATCGAA	400
<u>^</u> .	(2) INFORMATION FOR SEQ ID NO: 3819:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3819:	
	CAACGAGAGA CTCGGTGAAA TCATAGTACC TGTGAAGATG CAGGTTACCC GCGACAGGAC	60
35	GGAAAGACCC CGTGGAGCTT TACTGTAGCC TGATATTGAA ATTCGGCACA GCTTGTACAG	120
	GATAGGTAGG AGCCTTTGAA ACGTGAGCGC TANTTACGTG GAGGCGCTGG TGGGATACTA	180
	CCCTAGCTGT GTTGGCTTTC TAACCCGCAC CACTTATCGT GGTGGGAGAC AGTTTCAGGC	240
40	GGGCAGTTTG ACTGGGGCGG TCGCCTCCTA AAAGGTAACG GAGGCGCTCA AAGGTTCCCT	300
	CAGAATGGTT GGAAATCATT CATAGAGTGT AAAGGCATAA GGGACTTGAC TGCGAGACCT	360
45	ACAAGTCGAG CAGGTCCAAA AACGGACNTA GTGATNCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3820:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TGGCTCGAAC CACCGACCTC ACGCTTATCA GGCGTCGCTC TAACCAGCTG AGCTATAGGC	60
ź	CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT ATGTCACGTT ATTCCGCATC	120
5	TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC GCACCTTCCG	180
	ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC CCACCTTCGA CGGCTAGCTC	240
10	CTAAAAGGTT ACTCCACCGG CTTCGGGTGT TACAAACTCT CGTGGTGTGA CGGGCGGTGT	300
	GTACAAGACC CGGGAACGTT ATTCACCGTA GCATGCTGAT CTACGATTAC TANCGATTCC	360
	AGCTTCATGT AGTCGAGTTT GCAGACTACA ATmCGAACTG	400
15	(2) INFORMATION FOR SEQ ID NO: 3821:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
25 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3821:	
25	TATTAAATTA ATGGTGGGCC TAANTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT	60
	GCGCTCTAAC CAGCTGAGCT ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA	120
30	ATACAATATG TCACGTTATT CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA	180
	AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC	240
	ATTTGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT CGGGTGTTAC	300
35	AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC ACCGTAGCAT	360
	GCTGATCTAC GATTACTNAG CGNTTCCAGC TTCCATGNTA	400
40	(2) INFORMATION FOR SEQ ID NO: 3822: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Toronogi: Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3822:	•
50	TCTACCAACT GAGCTAATGG CTCTAATGGC TGGGCTAGCT GGATTCGAAC CAACGAGTGA	60
	CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAA TATATAGATG GnGGAGGGGG	120
	GCAGATTCGA ACTGCCGAAC CCGAAGAGCG GATTTACAGT CCGCCGCGTT TACCACTTCG	180

	GAACCGCCGA CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCAAAA	300
•	TAATGACTCC TACGGACTCG AACCCGTGTT ACCGCCGTGA AAGGGCGGTG TCTTAACCGC	360
5	TTGACCAAGG AGCCATGCTC CACAGTAGGA TTCGAACTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3823:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3823:	
	AACTTGCCTC TTTAGGTACA GCATGAGGCC CTAGGAAAGT ATGTTTCATG TCTAAATCAT	60
20	ATTTCTCAGC TAAACGATTA GACACTTTCA ATTGCTTCAG TTCATTTTCT CTATCTAATC	120
	CATAACCACT CTTACTTTCA ACTGCANGCA CGCCGTGTTT AATCATAGTA AGCAAATCAT	180
•	GCTCTGCTTT TTTAAACAAG TCATCTTCGG ATGTTTCTCT AGTAGCATTA ACGGTAGATA	240
25 .	ATATGCCACC ACCCATTTCT AATATTTCAA GGTAAGACTT ACCTGGACGT TTTAATGACA	300
	TCTCATGTTC TCGAGATCCA CCAAATGTNA AATGGGGTAT GTGGCATCTA CTAAGCCGGG	360
30	GGACACTANC TTTCCCACTA GGCATCAATC G	391
	(2) INFORMATION FOR SEQ ID NO: 3824:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· · · · · · · · · · · · · · · · · · ·
40	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3824:	
	ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT CTCTGGATCA	. 60
45	AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA TCGGCTTCTA	
45	GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAT CCTACAGGAA	
	ACGCGTTATT AATCTTGTGG AGTGTTCTTT CGAACACTGA GCGATTATTT CTTATGAATT	
50	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT	
	ACTITATION TITTCAATGT ACAATTCTTT TTAGTCAAGC GCTCGCATAA GCAATATCAC	360
	TTTGAACCAA AAAAGATTGG AAGGTGAAAT AAACATTCAA	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3825:	
10	ATCGATAACA TGACATAACT CATGCTGGGT TTCCCCATTC GGAAATCTCT GGATCAAAGC	60
	TTACTTACAG CTCCCCAAAG CATATCGTCG TTAGTAACGT CCTTCATCGG CTTCTAGTGC	120
15	CAAGGCATCC ACCGTGCGCC CTTAATAACT TAATCTATGT TTCCATCCTA CAGGAAACGC	180
	GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT	240
	TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTT ACTTACTTAT	300
20	CTAGTTTTCA ATGTACAATT TCTTTTTAGT CAAGCGCTCG CATAAGCAAT ATCACTTTAA	360
	CCAAAAATA TTTGAATGTn AAATAAACAT TCAAAACTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3826:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(D) TOPOLOGI. IIIIeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3826:	
35	TCACTCACCG CAGATTTTTA AGTCCTGTGC GTCTGCCAGT TCCGCCACCC CGGCACTATA	60
,	AAAATGGAGC AGAAGACGGG ATTCGAACCC GCGACCCCAA CCTTGGCAAG GTTGTATTCT	120
	ACCGCTGAAC TACTTCTGCA TATGCGGGTG AAGGGAGTCG AACCCCCACG CCGTAAGnCT	180
40	TAGATCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
,	GGATTCGAAC CTCTGACCCT CTGATTAAAA GTCAGATGCT CTACCAACTG AGCTAATGGC	300
	TCTTCCATGG TGCCGGCCAG AGGATTTGAA CCCCCAACCT TATTGGTTAC AAGTCAGTTG	360
45	CTCTTACCAA TTGAGCTAGG nCGGCAATAT GTTAAGATTA	400
	(2) INFORMATION FOR SEQ ID NO: 3827:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*

	/wil requence programmon, can in Mo. 2027.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3827:	•	
	AGTGGTGGAA TGGTCTTAAA AGTTGGTGGT CTAACTTTAG AGAAGACCAA	AAGAAGAAAA	6
5	GTGATAAATA CGCTAAAGAA CAAGAAGAAA CAGCTCGTAG AAACAGAGAA	AATATAAAGA	12
	AATGGTTTGG AAATGCTTGG GACGGCGTAA AAACTAAAAC TGGTGAAGCC	TTTAGTAAAA	18
	TGGGCAGAAA TGCTAATCAT TTTGGCGGCG AAATGAAAAA AATGTGGAGT	GGAATCAAAG	24
10	GAATTCCAAG CAAATTAAGT TCAAGTTGGA GCTCAGCCAA AAGTTCTGTA	GGATATCACA	300
	CTAAGGCTAT AGCTAATTAG TACTGGTAAA ATGGTTTGGA AAAGCTTGGC	CAATCTGTTA	36
15	AATTCGACTA CAGGAAGTAT TTACATTCAA ACTAGGCAAA		40
15	(2) INFORMATION FOR SEQ ID NO: 3828:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 400 base pairs		
20	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
•	(3)*10100011 221002		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3828:	•	
	TCTCAGTTCC AGTGTGGCCG ATCACCCTCT CAGGTCGGCT ATGCATCGTT	GCCTTGGTAA	60
	GCCGTTACCT TACCAACTAG CTAATGCAGC GCGGATCCAT CTATAAGTGA	CAGCAAGACC	120
30	GTCTTTCACT TTTGAACCAT GCGGTTCAAA ATATTATCCG GTATTAGCTA	CGGTTTCCCG	180
	AAGTTATCCC AGTCTTATAG GTAGGTTATC CACGTGTTAC TCACCCGTCC	GCCGCTAACA	240
	TCAGAGAAGC AAGCTTCTCG TCCGTTCGCT CGACTTGCAT GTATTAGGCA	CGCCGCCAGC	300
35	GTTCATCCTG AGCCAGGATC AAACTCTCCA TAAAAATTAT GATGTTGAnT	AGCTCATAAA	360
	TACTAAATAA TGTTGTAACT TATAGTACGT TTTTnGAAAT		400
40	(2) INFORMATION FOR SEQ ID NO: 3829:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	4	
	(B) TYPE: nucleic acid		
45	(C) STRANDEDNESS: double		
+5	(D) TOPOLOGY: linear	.*	
		•	
		•	•
- 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3829:		
50	CAAGCGCCAT GACATCATAA CTTTCTTGCA CAAGATATGT GAACGGCGGT	GTTGATCCTA	. 60
	GATTCGTGGC ATGCATACGC AAACCATTTT CTTCAATTAC TTCACCAAGG	CGTTTAAAAT	120

	ATTGATAAAA CCTTGATGTG TTTCGTGTCA ATGACATACC ATATCGACTA GGTACCTTTT	240
	TAGAATGTTG ATTAATCACA ACAAATATCA TGGCAAGGTC ATCTTCAAAA TGATTCGATT	300
5	CAAGTGGGAr SGGCATATGA CGTCTCATCA CLATACCCTL THTHCCCATT CTGCAAATHC	360
	ACCCATAAAT ACTACGGGAC GGAGAACCCG TACCCATTTC	400
	(2) INFORMATION FOR SEQ ID NO: 3830:	*
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3830:	
20	GGGTACTAAG ATGTTTCAGT TCTCCGGGTG TGCCTTCTGA TATGCTATGT ATTCACATAT	60
	CGATAACATG ACATAACTCA TGCTGGGTTT CCCCATTCGG AAATCTCTGG ATCAAAGCTT	120
	ACTTACAGCT CCCCAAAGCA TATChCGTTA GTAACGTCCT TCATCGGCTT CTAGTGCCAA	180
25	GGATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC ACCATTTTA TAAGTCAAAC	240
	GCTCACATAC GGCTTCGTTT TCATTATTTT AAATGCTCAT TTACATAAGT AAACTCTGCT	300
	TTAAAATAAT TTAACTCATT GTCTGCTAAA CGTTTTCTTT TATAAAAAGA TTTAAACGCG	360
30	TTATTAATCT TGTGAGTGGT CCTTCGAACA CTAGCGATNA	400
	(2) INFORMATION FOR SEQ ID NO: 3831:	
35 ઼	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
40 -		
• • •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3831:	
45	AAATGCGGCT CATCGCATCC ATTTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	60
70	TTGGCTACCA TCGTCGCTAA AGACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT	120
	CTCCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT CGTTGCGCTC TTTTCTCGTT	180
50	TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTTATT	240
	TTGACGTTTT AGACATAAAA AAAAGAGACC TTGCGGTCTC AATGCGGCTC ATCGCATCCA	300
	TTTTTTGCCT GGGCAACGTT CTACTCTAGC GGAACGTAAT TGGGCTACCA TCGACGCTAA	360

(2) INFORMATION FOR SEQ ID NO: 3832:

55

(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3832: AGCTTATTT AAAACGTCGT TTATTCACTC TGGTTTTGCT TGGTAAAATC TATATTTT. TTACTTATCT AGTTTTCAAT GTACAATTTC TTTTTAGTCA AGCGCTCGCA TAAGCAAT. CACTTTAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATG ACATTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGA. CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCA. TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTA TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTTCA 25 (2) INFORMATION FOR SEQ ID NO: 3833: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCACTTAATAT ACCGGTTAA 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	
AGCITATITI AAAACGTCGT TTATTCACTC TGGTTTTGCT TGGTAAAATC TATATTTT. TTACTTATCT AGTTTTCAAT GTACAATTTC TTTTTAGTCA AGCGCTCGCA TAAGCAAT. CACTTTAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATG ACATTATCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGA. 20 CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCA. TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTG TGTGACGGCG GGTGTGTACA AGACCCGGGA ACGTATTTCA (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCTAT GATACCAG: AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGCAG CCATTAATTA ACGGGTTAA 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	,
TTACTTATCT AGTTTCAAT GTACAATTC TTTTTAGTCA AGCGCTCGCA TAAGCAATA CACTTTAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATG ACATTATCC GCATCTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGA CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCAG TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTG TGTGACGGGC GGTGTGACA AGACCCGGGA ACGTATTTCA (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCAAT ATCATGCAA AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATAA TCATTGTCAG CCATTAATAT ACGGGTTAC AACCAATATAA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	
CACTITAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATG ACATTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGA CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCAC TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTC TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTTCA (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCAAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATAT ACGGGTTAC 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 46 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 47 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 47 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 48 AACCAATATA TGGTGATGAT TAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	TTAC 6
ACATTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGA CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCAC TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTC TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTTCA 25 (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCTAT GATACCAG: AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGCAG CCATTAATAT ACGGGTTAA 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 46 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 47 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 47 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 48 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 49 AACCAATATA TGGTGATGAT TAAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	ATAT 12
CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCAC TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTC TGTGACGGCC GGTGTGTACA AGACCCGGGA ACGTATTTCA 25 (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCDAT GATACCAG: AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGCAG CCATTAATDT ACGGGTTAC 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA 46 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA 47 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA 46 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA 47 AACCAATATA TGGTGATGAT TAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	TGTC 18
TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTC TGTGACGGCC GGTGTGTACA AGACCCGGGA ACGTATTTCA 25 (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCNAT GATACCAG AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATHT ACGGGTTAC 46 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAA 47 AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	GATC 24
TGTGACGGC GGTGTGTACA AGACCCGGGA ACGTATTTCA (2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCDAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATDT ACGGGTTAC 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA 46 ACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTDA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	CACC 30
(2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TITTCTTCTG GTARARATAC TGCARTARCA GTATCTATGC CTACTTGTTT TGCARTGGC TGAGCAGTGT TTTTATTATC GCCAGTTARC ATGGCARCTT CRATGCCCAT ATCATGCAR 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCHAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAR TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATHT ACGGGTTAG 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTHA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	CGTGG 36
(2) INFORMATION FOR SEQ ID NO: 3833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TITTCTTCTG GTARACTATC TGCARTARCA GTATCTATGC CTACTTGTTT TGCARTGGC TGAGCAGTGT TITTATTATC GCCAGTTARC ATGGCARCTT CARTGCCAT ATCATGCAR 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCTAT GATACCAGG AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAR TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATTAT ACGGGTTAG 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTAR AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	40
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833: TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCNAT GATACCAGG AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATNT ACGGGTTAC 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTNA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	
TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGC TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA 40 TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCNAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATNT ACGGGTTAC 45 AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTNA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	
TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAA TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCNAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATNT ACGGGTTAG AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTNA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	
TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCNAT GATACCAGT AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAI TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATNT ACGGGTTAG AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTNI AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	CGCT 6
AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAI TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAATnT ACGGGTTAG AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTNI AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	CAAT 12
TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAAThT ACGGGTTAG AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTThA AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	AGTT 18
AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTD AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	TAAA 24
AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTD AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA (2) INFORMATION FOR SEQ ID NO: 3834:	TACC 30
(2) INFORMATION FOR SEQ ID NO: 3834:	TnAA 36
50	40
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	

	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 3834:	
	NAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTTATGAG CCGTTAGCTC	60
5	TAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TNGCGGNNGA	120
	GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC	180
10	CGCCTTATAT AGTTTGTAAA TAATATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC	240
	TGCGTGCAAA GCAGGCGCTC TCCCAGCTGA GCTAAGCCCC CATAATAATT ACAGTATATC	300
	GGGAAGACAG GATTCGAACC TGCGACCCCT TGGTCCCAAA CCAAGTGCTC TACCAAGCTG	360
15	AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA	400
	(2) INFORMATION FOR SEQ ID NO: 3835:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3835:	
	AATAACAATT GCGCCACTAA AACTCAAAAT TTCCACCACC AACATCCAAA TTATCAACAT	60
30	CGCAACATAA CCAAATGTTA TAATAAATCT ATTACACAAA GAGATAAATT ACTTATGCAA	120
	AGGCGGAGGA ATCACATGTC TATTACTGAA AAACAACGTC AGCAACAAGC TGAATTACAT	180
	AAAAAATTAT GGTCGATTGC GAATGATTTA AGAGGGAACA TGGATGCGAG TGAATTCCGT	240
35	AATTACATTT TAGGCTTGAT TTTCTATCGC TTCTTATCTG AAAAAGCCGA ACAAGNATAT	300
	GCAGATGCCT TGTCAGGTGA AGACATCACG TATCNAGAAG CGTGGGCAGA TGAAGAATAT	360
	CGTGAAGACT ThAAAAGCAG GAATTAATTG GTTCAAGTCG	400
40	(2) INFORMATION FOR SEO ID NO: 3836:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
-	(2) 10102001. 111002	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3836:	
	CTAATCGCAT CTTTTTCAAT CTAAGTGCGT TTGTGACAAA CTTACTGAAC TTAGTGCCAT	60

	ATTATAGCCG AATGCCCAAA ATAGATTTTG ACGAATATTA CGAATGGTTG CTTTACTTGC	180
	ATAAATGGCT TTAGGAATAA GCATCAAGTC GCCACCAAGA ATAGTAATAT CAGCTGCTTC	240
5	AATGGCAACT TCTGTACCTG TACCAATGGC GATACCGATA TCAGCTTTAA CTAAATGCAG	300
	GTGCATCATT TACACCGTCA CCAACCATCG CAACCTTCTT ACCTGTTGGC TGTAGTTTCG	360
40	CAATTGTGGC AGCTTTTTnC TTCCGGnGAA AATATCNGGC	400
10	(2) INFORMATION FOR SEQ ID NO: 3837:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3837:	
	AGAGCGGATT TACAGTCCGC CGCGTTTACC ACTTCGCTAC CCCTCCAGCT TATTCATATA	60
05	ATTTAATAAT CAAAATGGTG GAGAATGACG GGTTCGAACC GCCGACCCTC TGCTTGTAAG	120
25	GCAGATGCTC TCCCAGCTGA GCTAATTCTC CAAAATAATG ACTCCTACGG GACTCGAACC	180
	CGTGTTACCG CCGTGAAAGG GCGTGTCTTA ACCGCTTGGA CCAAGGAGCC ATGGCTCAAC	240
30	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	300
	TGTGGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGGAAGTAAn TCGGACTACC	360
	ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3838:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3838:	
	AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC TACTAAACTC	60
	GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC	120
50	TTTGTGTTTA TTTTTATTTT GACGTTTTAG ACATAAAAA AAGAGACCTT GCGGTCTCAA	180
	ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG AAGTAATTGG	240
	GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTT	300

	TCAGATCCAA ACGTTTTCAN TCGNCCAAGC CAATTTGCCT	400
_	(2) INFORMATION FOR SEQ ID NO: 3839:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 416 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3839:	
15	TTACGGCCGC CGTTTACTGG GGCTTCGATT CGTAGCTTCG CAGTAGACTC GACTCCTCTT	60
	AACCTTCCAG CACCGGGCAG GCGTCACCCT GATACATCAC CTTACGGTTT AGCAGAGACC	120
	TGTGTTTTTG ATAAACAGTC GCTTGGGCCT ATTCACTGCG GCTCTTCTGG GCGTTAACCC	180
20	TAAAGAGCAC CCCTTCTCCC GAAGTTACGG GGTCATTTTG CCGAGTTCCT TAACGAGAGT	240
	TCGCTCGCTC ACCTTAGAAT TCTCATCTTG ACTACCTGTG TCGGTTTGCG GTAGGGCACC	300
25	TATTTTCTAT CTAGAGGCTT TTCTCGGCAG TGTGAAATCA ACGACTCGAG GACACAATGT	360
	CTTCTCCCCA TCACAGETCA GCCTTGAACG rGTaCCGGAT TTGnCTAATG ATTCAG	416
	(2) INFORMATION FOR SEQ ID NO: 3840:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3840:	
	AAGTTAGGCT ACCATCCTCG CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
40	TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTCT	120
	CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
45	TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTCACGGT CTCAAACTTG CCTGGCAACG	240
	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	300
	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	360
50	CTCGTTGGnG CTCTTTTCT CGGTTTnGTC AGAnTTCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3841:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3841:	
	CGCGACTGAN GAATACAATG NCTACGATAA CTAAACCCAA TCAATCTTTT CATTCTATCA	60
10	ATTCCTTTCA AAATCTTCAC TATATATCAT TAATGTCTAC GTATGAATCT AGCTAGAACA	120
•	TTCCCTAGCG TTTGAATCAC TTGGACAATA ATGACTAATA CAATAACGGT AATAATAATG	180
	ACCGTCGTAT CAAATCTTTG ATAACCATAC ACTAAAGCTA AGTCTCCTAT ACCACCACCG	240
15	CCAACAGCTC CTGCCATCGC CGTACTTCCA ATAAGTCCAA TAATCGCAGT GGTAATTGCT	300
	AATACTAACG AACCTAAAGC TTCAGGAATT AAAAAATATC TAATGATTTG TAGTGGTGAA	360
	GCGCCCATCG CTTTCGCCGC TTCAATAATC CCCTCGTCTA	400
20	(2) INFORMATION FOR SEQ ID NO: 3842:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3842:	
	TCGCGATTCG CGTGTTCAGA AATCATCGGC ATCGCGTCAT TCAATGATTC ATATGCATCT	60
	AAAGCAATAG AAGATAATGT GTCTGGCACA TATACCCATG CCAACGTATC AGTAGACGTA	120
35	TGATGTTCTG CTACCGCAAA AACAGTTGTC TCTGGAATAT ACACACCTGA TTGTTTTAAT	180
	CCTTGTCTGA CATTTGGACG ATTACATATC ATCGCTAATA ACTTAGCATT AAAACCGCTT	240
	GATGCGCCAC CACAAGCCCC ACATTCAAGT GATGCATGAT GTGGATTATT GTGAGAATGA	300
40	CTAGCATGAC CTGCTAACAC AACGAACGGC GCAAATGCTT CGGKTAAATC CATCAATTTC	360
	AACGCTGTAA CGCGAATCAA TTGCTCTGCT CAGTAAATCC	400
45	(2) INFORMATION FOR SEQ ID NO: 3843:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3843:	

	GCCAACATCC TAGTTGTCTG GGCAACGCCA CATCCTTTTC CACTTAACAT ATATTTTGGG	120
	ACCTTAGCTG GTGGTCTGGG CTGTTTCCCn GTCGAACACG GACCTTATCA CCCATGTTCT	180
5	GACTCCCAAG TTAAATTAAT TGGACATTCG GAGTTTGTCT GAATTCGGTA ACCCGAGAGG	240
	GGCCCCTCGT CCAAACAGTG CTCTACCTCC AATAATCATC ACTTGAGGCT AGCCCTAAAG	300
10	CTATTTCGGA GAGAACCAGC TATTTCCAGG TTCGATTGGG AATTCTCCGC TAACCTCAGT	360
	TCATCCGnTC ACTTTCAACG TAAnTCGGGT CGGGTCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 3844:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 469 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) TOPOBOSI: IIIIeai	
	(and) CROUPINGS DESCRIPTION CESS IN NO. 2014	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3844:	60
25	ACTITIACTI GCTGCGCCTC CAGCCAAACC TGCTGTTCCA GCACCGATCG CTGCACCTTT	
	TTTGCCATTA TGATGATCTT TAGACTTATC TTGAGACGCT TTATCCTCAG TCGAGTTATT	120
	CGCCTTGCCA GAATTACTTT TGTTTTGAGC GTCATTTGAA TGTTTCTTAG CTTTAGAAGC	180
30	AGCCATTGCA CCAGCTGCAC CTGCAACACC TGCTGTTCCA GCACCAATAG CTGCTGCTTT	240
	TTTACCATTA TGATGTTCTT TAGGTTCATC TTGATCTTGT TTTACAGAAT CATTATCATG	300
	TTCATTTTTT GATGTTTCTG ATTGGTTAGC ACCTGTTGTA AAATATGGTT TAGGTTGCTG	360
<i>35</i>	AGATTGTTCA GCTTCACTCT TATCAGAAAC TGTTGAATGC TCAGTGTTAT TTTCTGCATT	420
	TTTAATAGTA TCGTGTTTAn CCATTGTCCT CGAATGGGTT CnGGATGTG	469
	(2) INFORMATION FOR SEQ ID NO: 3845:	
.40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3845:	
50	GCTTCACTAC CAAGTGAAGA AGTTGCTGAA ACTCCTGCAG CACCTGCARC AGTAACATTA	. 60
	GAAGGCGACT TCCCAGAAAC AACTGAAAAA ATCCCTGCTA TGCGTAGAGC AATTGCGNAA	120
	CATGGITTTA ACTCTAAGCA TACTGCACCT CATGTAACAT TAATGGATGA AATTGATGTT	180
<i>55</i>	·	

	TTAACATTCT TACCTTATGT TGTTAAAGCA CTTGTTTCTG CATTGAAAAA ATACCCAGCA	300
F	CTTAACACTT CATTCAATGA AGAAGCTGGT GAAATCGTTC ATAAACATTA CTGGGAATAT	360
5	CGGTATTGCA GCAGACACTG ATAGAGGATT ATTAGTACCT	400
	(2) INFORMATION FOR SEQ ID NO: 3846:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3846:	
	TTAAGCTACC ATCCTCGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC	60
20	TCTCCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT	120
	TTCGTCAGAT TCAAACGTTT TCACTTCGCC AAGCCATTTT TCTTTGTGTT TACTTTTAT	180
25	TTTGACGTTT TAGACATAAA AAAAGAGACC TCACGGTCTC AACTTGCCTG GCAACGTTCT	240
25	ACTCTAGCGG AACGTAAGTT GGGCTACCAT CGTCGCTAAA GACCTTTCTT GACTTGTGAC	300
	AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCnTACT CATTTAGCTC TACTAAACTC	360
30	GTTGGCGCTC TTTTCTCGGT TCGTCAGATT CAAACGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3847:	
	ATCGTCAACT TATTATTAGA CGATGTACAA GTTACATTAG ACAAAAAAGG TATTACGATG	60
45	GACGTTTCTC AAGATGCGAA AGATTGGTTA ATTGAAGAAG GCTATGATGA AGAATTAGGT	120
45	GCACGTCCAT TAAGACGTAT TGTTGAACAG CAAGTACGTG ACAAAATTAC AGATTACTAT	180
•	TTAGATCATA CAGACGTTAA ACATGTGGAT ATAGATGTTG AGGGATAACG AATTAGTCGT	240
50	AAAAGGTAAA TAACGACACT TTAACATATC GCGCATCAAA AATGAGCATC AGGTCGCCCT	300
	TGCCTGTGGC TCATTTTTT GAATTATTTC CCTGGGAAAA TGATTCGCTG TGTGCTGTTC	360
	TGTTnCCACA ACAATCACGA TTGAATGTGC ACATGTGACC	400
<i>55</i>		•

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3848:	
10		
	TTTAAAACTC TTTATTCACT CGGTTTTGCT TGGTAAAATC TATATTTTAC TTACTTATCT	- 60
	AGTTTTCAAT GTACAAATAA TGGTGGGCCT AAGTGGACTC GAACCACCGA CCTCACGCTT	120
15	ATCAGGCGTG CGCTCTAACC AGCTGAGCTA TAGGCCCCATT TTTTTGAATG TTAAATAAAC	180
	ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG ATGTTCCGAA	240
	TATATCCTTA GAAAGGAGGT GATCCAGCCG CACCTTTCCG ATACGGCTAC CTTGGTnACG	300
20	ACTTCACCCC AAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC	360
	GGCTTCGGGn GTTACAAACT CTCGTGGGTG TGACnGGCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3849:	
25 	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3849:	
3 5	GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC	60
	TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT	120
	TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT	180
40	TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA	240
	AAAAAAAGAG ACCTTGCGGT CTCAATGCGG CTCATCGCAT CCATTTTTTG CCTGGCAACG	300
	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	360
45	GACAATCGCT TGCTTCTTTC CTnTCCTTCG GCTCTCGCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3850:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3850:	
	GTCTACTAAT GTTACAACCA CACCTGATTA ATTGCTTTTT TAGCAGTAAT TGCCACATCT	60
5	GTGTGACGAT AATGATATGC GACAGTTAAT AATTTGTGAT TTTTATTAGC CGCTTCAATC	120
	ATGCGATCAC ACTCTTCCGT CGTCATCGCC ATTGGCTTTT CACACAATAC ATGGACACCA	180
	TGGTTCAATG CTTCTATAGA AAGATCAGCA TGGAATTTAT TAGGTGTACA AATGACCACC	240
10	GCATCAACAA GTTTAAACAG CTCGCTAGGT GTCTCAACTG CATGAGGTAT ATTAAAGCGC	300
	TTCGCAACAT CAATCATCTG CACTGTATTA ATATCTTGTA CTGCAACTAA TGAGACTGTG	360
15	TCTTTGAGTT TCAGCAATGC TGGAATATGA CGGTCTTGTG CAATACCACC AACAACTATG	420
	CACACCAACT TTTAANTTTG TNCATGATGT GCCNGCTTNA CCG	463
	(2) INFORMATION FOR SEQ ID NO: 3851:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 628 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3851:	
30	TATGCTCTAA TGCTGGGCTT AGTGGATTCG ACCAACGAGT GACGAAGTCA AAGTCAGTTG	60
	CTTTACGCTT GGCTATAGCC CCAATATATA GATGTTGGAG GGGGCAGATT CGAACTGCCG	120
	AACCCGAAGG AGCGGATTTA CAGTCCGCcG CGTTTAGCCA CTTCGCTACC CCTCCAGCTT	180
35	ATTCATATAA TTTAATAATC AAAATGGTGG AGAATGACGG GTTCGAACCG CCGACCCTCT	240
	GCTTGTAAGG CAGATGCTCT CCCAGCTGAG CTAATTCTCC AAAATAATGA CTCCTACGGG	. 300
	ACTCGAACCC GTGTTACCGC CGTGAAAGGG CGLGTCTTAA CCGCTTGACC AAGGAGCCAT	360
10	GGCTCaCAGG TAGGACTCGA ACCTACGACC GATCGGTTAA CAGCCGATAG CTCTACCACT	420
·	GAGCTACTGT GGaTTAATAT TATGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTtCG	. 480
	GACTIACCAT CGACGCTGAA GGAGCTTAAa CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	540
15	CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTGAATTT GATGACATTG CAAAANTAGN	600
	TTAGTAAGTA AAAGTGGATT TTGGnTTn	628
50	(2) INFORMATION FOR SEQ ID NO: 3852:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3852:	
5	TAAAGATTTA AAAGTAGCTG TTATTGGnAC AGGTCGAATT GGCCGTGTAG TAGCCGATAT	6
	ATTTGCCAAT GGTTATCAAA GTGATGTGGT CGCATACGAC CGTTTCCTAA TGCTAAAATT	12
	GCAACGTATG TCGATTACAA AGATACGATT GAGGAAGCGG TTGAAGGTGC TGATATCGTG	18
0	ACATTACATG TACCTGCAAC GAAATATAAT CATTATCTAT TTAATGCTGA ATTATTTAAA	24
	CATTITAAAA AGGGCGCNTA TTTGTCAATT GTGCGAGAGG TTCTTTAGTA GGATACTAAG	30
	GCGTTATTAG ACGCATTAGA CAATGGTGTG ATTAAAGGTG CAGCACTTGn TTACGTATGG	36
5	ATTTGGAACG GCAAACTTTT TCCCAAGTGG TCCAAAGGGG	40
	(2) INFORMATION FOR SEQ ID NO: 3853:	•
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3853:	
	TCTTAAACAT TAGCCACAGC TAATTGTGAC TTAAAAATAG GAATACATGA GTAAAACTCA	6
0	TCATAAGAAA TACTAATTTC TATAGAAAAA GTATTACTTT ATCGTTGTCC CACCCCAACT	12
	TGCACATTAT TGTAAGCTGA CTTTCCGCCA GCTTCTGTGT TGGGGCCCCG CCAACTTGCA	18
	CATTATTGTA AGCTGACTTT TCGTCACTTG CTGTGTTGGG GCCCCGCCAA CTTGCACATT	24
5	ATTGTAAGCT GACTTTCGT CACTTDCTGT GTTGGGGCCC CGCCAACTTG CATTGTCTGT	30
	AGAAATTGGG AATCCAATTT CTGCTATGTT GGGGCCCACA CCCCAACThC GCATTGCCTG	36
o	TAGAATTTCT TTTCGAAATT CTCTGTGTTG GGGGCCCACA	40
U	(2) INFORMATION FOR SEQ ID NO: 3854:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3854:	
	*	_

	GAAATCAATA NATCAGTAAC TACTGATGGT ATGACACAAT CATCAATCCA AGCATATGAA	180
	AATGCTAAAC GTGCGGGTCA AACAGAATCA ACAAATGCAC AAAATGTTAT TAACAATGGT	240
5	GATGCGACTG ACCAACAAAT TGCCGCAGAA AAAACAAAAG TAGAAGAAAA ATATAATAGC	300
	TTAAAACAAG CAATTGCTGG ATTANCTCCA GACTTGGCAC CATTACAAAC TGCAAAANCT	360
	CAGTÍGCAAA TGRITATTGTC AGCCACGAGT ACGGCTGGTA	400
10	(2) INFORMATION FOR SEQ ID NO: 3855:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3855:	
	TGTGTGAAAA ACCAATGGCT GAAAACGACA GCAGAAGCTC AAAAAATGAT AGATACAGCT	60
	AAATCAACAG GTAAAAAATT AACAATAGGT TATCAAAATC GTTTCCGAGC AGATAGTCAA	120
25	TTTTTACATC AAGCAGCGCA ACGTGGCGAC TTAGGAGACA TTTACTTCGG AAAGGCACAT	180
	GCCATTCGTC GTCGAGCAGT ACCAACATGG GGTGTCTTTC TAGACGTAGT AAGCTCAAGG	240
	TGGAGGACCA TTAATCGATA TCGGTACACA CGCTTTAGAT TTAACGTTAT GGATGATGGA	300
30	TANTTATGGA ACCAGAATCA GTGATGGGTT TCAACATTCC ATAAATTNAA TAAACAGCCT	360
	CATGCGGGCA AACGCTTGGG GTTTCAGGNG TTCCAGATGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3856:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3856:	
45	CGTTCTCAAT AGAATGATTT AAATCTTCGA TTTCTTTATC TAAATGACTA CCAATTAAAT	60
	CTATTTCTTC TATTGTTAAA TCGCTATCTC CATCTTCTTT TATCTCTGGT ATTATTTTTT	120
50	CTTCAACTAA GTCACGATAT AATGTTTTTG AATTTTCGTT CAATTTCGAT TCGTGATTTT	180
50	GAATACTTTT CTTCCACACA AATGTATATC TATTGGCATT AGCTTCTACT TTTGTACCAT	240
	CAATAAAAAT TGAATTATTA TCAATAAGAT TTTGCTTTAA ACATTGACTA TGGAACTGAA	300

	TATAAGAAGG nGGTTGGANC NTGAGCGAAC CACANCATCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3857:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 381 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3857:	
15	GGCATACCAT GGTCAAACGC GTGATGATCA AGTAACATCA CATGTTCAAC ATATTTTTGA	60
	AGTTGTGAAT GCACATGGTA AACATTTTTG TGCATTACCA CGTGAAGATG AAGATATTGC	120
	AAAATGGCAG GCACAAGGTG TACAAACATT TATTTTAGGT GATGATCGCG GAAAAATATA	, 180
20 ,	TCGCCATTTA AGTGCATCTC TAGCGACGTC TAAACAGAAA GGGGATGAAG GCTAATGCGT	240
	AAAGTTCAAC CTGTTATTGA ACAATTAAAA GCACAATCTC ATCCAGTTTG TCATTANATC	300
	TATGATTTAG TCGGACTGGG ACATCATTTG CANCATATTA CATCGNCCTT GCCGAGTAAT	360
25	TGTCAAATGT ACTATGCAAT G	381
	(2) INFORMATION FOR SEQ ID NO: 3858:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3858:	
	GCATGAAGCC CCCCTCAAGA TGAGATTTCC CAACTTCGGT TATAAGATCC CTCAAAGATG	60
40	ATGAGGTTAA TAGGTTCGAG GTGGAAGCAT GGTGACATGT GGAAGCTGAC GAATACTAAT	120
	CGATCGAAGA CTTAATCAAA ATAAATGTTT TGCGACAATT CACTTTTACT TACTATCTAG	180
	TTTTGAATGT ATAAATTACA TTCATATGTC TGGTGACTAT AGCAAGGAGG TCACACCTGT	.240
45	TCCCATGCCG AACACAGAAG TTAAGCTCCT TAGCGTCGAT GGTAGTCGAA CTTACGTTCC	300
	GCTAGAGTAG AACGTTGCCA GGCAAAAAT GGATGCCGAT GGAGCCGCAT TGAGACCGCA	360
50	GGnCTnTTTG TTTTTTATGT CTAAAACGTC CAAATTAAnA	400
50	(2) INFORMATION FOR SEQ ID NO: 3859:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3859:	
	GTTTATTAAT CGTGTCATTA GCATCTTTAT AATTGCTTCT AATCGTATTC AAATCACCTA	60
10	ATGTTAAATC TGTTTTAACA TTATTTTGAA TTTCATTCAT GCATCTGAAT CTGAATCGCT	120
	ATCTGAATCT GAGTCGTTGT CTGAGTCCGA nTCGCTATCT GANTCTGAGT CGCTGTCTGA	180
	ATCTGAATCG CTATCCGAGT CTGAGTCGCT ATCTGAGTCT GAGTCGCTAT CTGAATCTGA	240
15	ATCGCTGTCT GAGTCTGAAT CGCTATCTGA GTCTGAATCG CTGTCCGAAT CTGAGTCGCT	300
	ATCTGAATCT GAATCGCTAT CTGAATCTGA GTCGTTGTCT GAGTCCGAAT CGCTATCTGA	360
	ATCTGAGTCG CTATCTGAGT CTGAGTCGCT ATCTGAATCT GAGTCGCTGT CTGAATCTGA	420
20	ATCACTGTCT GAGTCTGAGT CGCTGTCTGA AGTCTGAATC GCTGTCAGAA TCTGAGTCGC	480
	CAACTGAGTC TGAATCTGAA TCACTGGTCT GAGTCCGAAT CGCNATCTGA ATCNGAATCG	540
25	Chaaccgagt CCGaagccgc haatccgaat CTG	573
	(2) INFORMATION FOR SEQ ID NO: 3860:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronogi: Timeat	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3860:	
	GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG	60
40	CTGACCTCCT GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC ATAATAATTA	120
	CAGTATATCG GGAAGACAGG ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT	180
	ACCAAGCTGA GCTACTTCCC GTATAATTAA CGCGCCCGAT AGGAGTCGAA CCCATAACCT	240
45	CTTGATCCGT AGTCAAACGC TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGnA	300
•	AAATGGTGCC GAGGNACCGG GAATCGGAAC CGGTACGGTT GATNCACTCA CCGGCAGGAT	.360
	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGnGC	400
50	(2) INFORMATION FOR SEQ ID NO: 3861:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double'	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3861:	
	TGTTGCGACT AAACCATTAC CTATCGCACA TATGACGAAA CCAATGATAA CTGCAATGAC	6
5	ATATTGTGAT GCCAATAATT GAGTCATGCT AATAATAGTG ATGCCGATGA CAGGGAACAA	12
	CGGACCAATG ATGAGCATCA ATTTGCCACC GAAACGTAAT GTTGCTTTTT CACCTAAACG	18
10	AATCATCGCA ACTGCCACAA TGGCATATGG CAATGTAACA nGTCCAGATT GCGCACTGAT	24
	AAACCAAGGT GTGTTTGAGC ATATATGAAA AAGACCACTG TTACGCCTAG ACCGCTATTT	30
	AAAACAAAGT TATTTAAAAA TGCACCAATG GAACGGACGG TTGCGTAATA CTGGAGAANT	36
15	CAATAAAAGG TACTTCCATG TCCGACGTTC CGATGGATGG	40
	(2) INFORMATION FOR SEQ ID NO: 3862:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		-
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3862:	
	GTGCGCATGG GAACTATCAA GCTTTGAAGA TGTGGTACTA CATGCGTTGA ATTAGGGATC	60
30	GGTACTTTAT ATGAAGACGT GCTGCTTCCA TTAAATGAGT GATGCGATTT TGGCATGAAG	120
	GTCACCTTAA ATGTACATTG TTGTAATAAA ATTGCCTATA AATTTTTAGC ACATAAAATA	180
	AGAGGAGCCA ACCATTGTTA GACTATAACA ACGGTTGGCT CTTTAATTGT AAAAAGAAAA	240
35	CCATACGCTA TGCGTATGGT TCAGAAAAGG TCTACCATTG TCACCAAAAA TGCATCTCTA	300
	EGTGCTAGAA TAAATATTGG TCAGCCAACC AAAATAATCC ACACGGGGAG ATGCTATTTA	360
	ATGTCCTCCT GACACCAACA GTTAGCACCA TACAAAATGG	400
	(2) INFORMATION FOR SEQ ID NO: 3863:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3863:	
50		,
	TCGGCAAGCC ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA	60

2721

` *55*

	CTAGCGGAAC GTAAGTTGGC TACCATCGAC GCTAAGAACC	TTTCTTGACT	TGTGACAATC	180
	GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG CTTACTCATT	TAGCTCTACT	AAACTCGTTG	240
	CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT	CGCCAAGCCA	TTTTTCTTTG	300
	TGTTTGCTTT TTATTTTGAC GTTTTAGACA TAAAAAAAA	AGACCTTGCG	GTCTCAAATG	360
	CGGCTCATCG CATHCATTHT TGCCGGCAAC GTTCTACTCT	i		400
	(2) INFORMATION FOR SEQ ID NO: 3864:			
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3864:		
	GTACTATAGA ATTAAAGAAT TATAAAAATA TAATCCTGAT		TCAAGTCATC	60
	GTTCATAATG AAGATATCAC GTTCAATTGT ATTGTTTGTT			120
•	AATAGTATAT GTATGCGGTT ACATAAAAAG CGAACATCTA		· •	180
	TGACGCTCAA TCAACTAATT TACAACCGTA TTTTTATAAT			240
	GAAAATGAAT AGTGCAAAAT TGATTGATCA CACTTTATTG	AAGCCTGAGT	CAACACGTAC	300
	GCAAATCGAT CCAAATCATC GATGAAGCGA AGCATACCAT	TTTAAATCTG	TATGTGTGAA	360
	TCCAACGCAT GTTAAANGTG CCAGCAGAGC GACTAGCTGG	;		400
	(2) INFORMATION FOR SEQ ID NO: 3865:			
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3865:		•
	GCAGCACGTC TTCATATAAA GTACCGATCC CTAATTCAAC		CCACATCTTC .	60
	AAAGCTTGAT AGTTCCCATG CGCACACCAC GTTTCATACT			
	GTTCATAAAC TCTTTAATAT AAGTCAATGT TTCAACCATC			•.
	TCCTTCTGCC ATTTGATAAA ATGTTTCATG CGTGGCACCT	-		
	TAAATAATAC GCATGATGAA TACCAACTTG CTGGTCTTTC	CCTCCATGTA	CAATTAATAT	300

	TTTTTTCGGA TGACCAATCA TTCTTCGTAG CATGCCTCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3866:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3866:	
15	AAGTCAATAA CTTTTTTAT CTTGTCCATT TTATTTTTTA ACCAAAATTT GATTAAAAAA	60
	CTGCCTGGCA ACGTTCTACT CTAGCGGAAC GTAAGTTCGA nCTACCATCG ACGCTAAGGA	120
	GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA	180
20	TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA	240
	AACATTTATT TTGATTAAGT CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT	300
	GCTTCCACCT CGGAACCTAT TAACCTCATC ATCTTTGGAG GGGATCTTAT AACCGGAGGT	360
25	TGGGGNAAAT CTCATCTTGA GGGGGGGCTT CCAGGCTTAG	. 400
	(2) INFORMATION FOR SEQ ID NO: 3867:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3867:	
	CACCTATAAT CGTTTTAATC GATGGGGGGA CGCATAGGGA TAGGCGANGT GNCGATTGGA	60
40	TTGCACGTCT AAGCAGTAAG GCTGAGTATT AGGCAAATCC GGTACTCGTT AAGGCTGAGC	120
	TGTGATGGGG AGAAGACATT GTGTCTTCGA GGTCGTTGAT TTCACACTGC CGAGAAAAGC	180
	CTCTAGATAG AAAATAGGTG CCCGTACCGC AAACCGACAC AGGTAGTCAA GATGAGAATT	240
45	CTAAGGTGAG CGAGCGAACT CTCGTTAAGG AACTCGGCAA AATGACCCCG TAACTTCGGG	300
	AAGAAGGGTG CTCTTTAAGG TTAACGCCCA GAAGAGCCGC ATGAATAGGC CCAAGCGACT	360
50	GTTTAnTCAA AACACAGTCT CTGCTAAACC TAAGGATGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3868:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH 383 base pairs	

٠	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3868:	
	TTCTTTGGAA ATAGTAACGT TGAAGTTGTA CTCACTGGTG ATACATTTGA TCACTGTTTA	60
10	GCTGAAGCTT TAACTTATAC AAGTGAACAT CAAATGANCT TTATAGATCC ATTCAATAAT	120
	GTTCATACAA TTTCTGGACA AGGTACGCTT GCTAAAGAAA TGCTAGAACA AGCAAAGTCT	180
	GACAATGTTA ACTTTGATTA TCTATTTGCC GCAATTGGTG GTGGCGGTTT AATTTCAGGT	240
15	ATTAGTACTT ACTITAAAAC CTATTCACCT ACCACGAAAA TTATAGGTGT TGAACCTTCA	300
	GGTGCCAAGT AGTATGTGAT GGAATCTGTT GTGAAATATT CAGGTAGTCA CATTGCCCTA	360
00	Antcgataaa TTTGTGGACG GTG	383
20	(2) INFORMATION FOR SEQ ID NO: 3869:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3869:	
	CTAAGCTTAA GGGTTGCGCT CGTTGCGGGA CTTAACCCAA CATCTCACGA CACGAGCTGA	60
	CGACAACCAC CACCTGTCAC TTTGTCCCCC GAAGAAGNGC TCTATCTCTA GATTGTCAAA	120
<i>35</i>	GGATGTCAAG ATTTGGTAAG GTTCTTCGCG TTGCTTCGAA TTAAACCACA TGCTCCACCG	180
	nTTGTGCGGT TCCCCGTCAA TTCCTTTGAG TTTCAACCTT GCGGTCGTAC TCCCCAGGCG	240
	GAGTGCTTAA TGCGTTAnTG CCAGCACTAA GGGGCGGAAA CCCCCTAACA CTTAGCACTC	300
40	ATCGTTTACG GCGTGGACTA CCAGGGTATC TAATCCTGTT TGATCCCCAC GGTTTCGCAC	360
	ATCAGCGTCA TTTACAGACC AGAAAGTCGn CTTCGGCAAT	400
45	(2) INFORMATION FOR SEQ ID NO: 3870:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3870:

	GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATAAC TCATGCTGGG	120
	TTTCCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA GCATATCGTC	180
5	GTTAGTAACG TCCTTCATCG GCTTCTAGTG CCAAGGCATC CACCGTGCGC CCTTAATAAC	240
,	TTAATCTATG TTTCCATCCT ACAGGAAACG CGTTATTAAT CTTGTGAGTG TTCTTTCGAA	300
n	CATGAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC ACTCGGTTTT	360
,	GCTTGGTAAA AGCnnGn	377
	(2) INFORMATION FOR SEQ ID NO: 3871:	,
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3871:	
	ATAACGTTGC CCCTCCCATG TATATCCTAC CCAAACATGA CCATCTTGTA ACATCACTTC	60
5 .	TGTATAATCA CAATACCCAC CAGGTTGGAA CTGATAACCC ACTGGACAAG ATAAGAATGG	120
	CCCCACTTTT CTTACTGTGA TTGGTTGATT GCCGTTTGTG AATCTAGCAC TTTCTTCCAT	180
	GTAGTAAGTA CCATATTTAT TACGTTTCCA TGCACTTGCA ACTGGTTTAA CTGTATTACT	240
	TGAAGCGCTT GACTCATTAG AGACAGTGGC AACCGGTATT TTACCATCCA TGTACGCCCT	300
,	AAATCTGCTT GATAAAGTAG TCTTTTAAGT TGCAACCGCT TGTCTTCTGG GCAATAGACC	360
5	GCGAGTTACN GGGGTCCAAA CCCNTGGTGT AAAANCGAAC	400
	(2) INFORMATION FOR SEQ ID NO: 3872:	
· ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	157 2515251	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3872:	
	CGCTACACTA CGAGACCATT AGTAAAACGC AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	60
	TTAAGCCCCT GTCGGTTTTC AAGACCGATC CCTTCAGCCG GACTTGGGTA TTCCTCCAAA	120
,	ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG TTATGAGCCG TTAGCTCTAA	180
	CCAACTGAGC TAAAGGTCCT AAATATAATT TTACAACTAA TAAATAGTGG CGGTGGAGGG	240

	GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG GGATCGAACC GCTGTACCTC	360
	CTGCGTGCAA ACGGGCGCTC TTCCCAGCTG nAGCTAAAGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3873:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 584 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3873:	
	ACAGCTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA	60
•	CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCTTCG	120
20	GTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTCTCGTT TCGTCAGATT	180
	CAANNGTTTT CALTCGCCAA GCCATTTTC TTTGTGTTTA CTTTTTATTT TGACGTTTTA	240
•	GGCATAAAAA AAAGAGACCT TGCGGTCTCA ANTGCGGCTC ATCGCATCCA TTTTTTGCCT	300
25	GGCAACGTTC TACTCTAGCG GAANTAAGTT GGGCTACCAT CGTCGCTAAA GACCTTTCTT	360
	GACTTGTGAC AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC	420
	TACTAAACTC GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA	480
30	GCCATTTTC TTTGTGTTTA CTTnTnATTT TGACGTTTTA GACATAAAAA AAAGAGACCT	540
	TGCGGTCCAA ATGCGGGCTC ATCGCATCCA TTTTTTGCCT GGGC	584
35	(2) INFORMATION FOR SEQ ID NO: 3874:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3874:	•
45	TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAnTTGG CTACCATCGT CGCTAAAGAC	60
	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	120
50	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	180
50	TCGCCAAGCC ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA	240
	GAGACCTTGC GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGCA ACGTTCTACT	300

	GCTTGCTTCT TCCGCCTCTCG CTTACTCATT	400
	(2) INFORMATION FOR SEQ ID NO: 3875:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3875:	
15	TCTGCTAATT TAAAAATGAT ATTTTCTATC TTTTCTTTAT TATTAACGTC TAATGCACTG	60
	GTCGATTCAT CTAATAAAAG AATATCCGGT GTATACATCA GTTGGCGCGC TATAGCAATT	120
	CTTTGCCGCT CACCACCCGA CATATTTTCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA	180
20	CCGACATCTT TAATTAATTG CTTTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT	240
	GATGGGAATA TCATGTTATC TTCAATCGGT CACCAAACAA GTCACTTTGC TGCATCAAAT	300
٠.	AACTGATTCG TTGACGCCAA TTCTTCCGGG GCATAATnCA TATAGGGGTT ACCTTAAAAA	360
25	TAAAGGTCCT CCACTAGTTG GCCTANACNA ATTACATAAN	400
	(2) INFORMATION FOR SEQ ID NO: 3876:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3876:	
	AGATAGACTT TCTGGTGAAG ATACACGTGA AGGTATGACA GCAATTATAT CTATCAAACA	60
40	TGGTGATCCT CAATTCGAAG GTCAAACGAA GACAAAATTA GGTAATTCTG AAGTGCGTCA	120
	AGTTGTAGAT AAATTATTCT CAGAGCACTT TGAACGATTT TTATATGAAA ATCCACAAGT	180
	CGCACGTACA GTGGTTGAAA AAGGTATTAT GGCGGCACTG CACGTnTTGC TGCGAAAAAA	240
45	GCGCGTGAAG TAACACGTCC GTAAATCAGC GTTAGATGTA GCAAGCCTTC CAGGTAAATT	.300
	AGCCGATTGC TCTAGTAAAA GTCCTGAAGA ATGTGAGATT TCTTAGTCGA AGGGGCTCTG	360
	CCGGGGGGTC TACAAAATCT GGTCGTGACT CTAGACCGCA	400
50	(2) INFORMATION FOR SEQ ID NO: 3877:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>5</i> ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3877:	
	ACCAATTTCT CCTTTGTATC CGCCATCTTT AAATAATTTT ACTGCTCTAG CATGAGCCAC	60
10	CATCATGTTA TGTGATTGGA ATACTTTTTC AAAATCATAT TTAATACCTG GAGGGAATTT	120
	ACCTACTAAA TATTGACCAT CACCAATAGG TCCAATTTCA TTGAATGTAG TCCAATATTT	180
	TACTTCTGGG AATTCTTTAA AACAATATTC AGCATAATCT ACAAAGTAGT CAATCGTTTT	240
15	ACGNTTTAGA AAATCGCCAT CTTTGGTGGT ACACTTCTGG GNGTATCAAA ATGNTGCAAT	300
	GTTACAAATG GTTCAACATG ACGGTTTATG GNCACTCTGC AAATAACCTT ATGGTAATAC	360
20	TCAACACCTT AGGGGTTAAC TTCGGCCATA TCCCTTTTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3878:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3878:	•
	ATTAAAGCAG TTTCTGGATC TGGTAAAAAT GGTCGTATTA CAAAAGAAGA TGTAGATGCA	60
	TACTTAAATG GTGGTGCACC AACAGCTTCA AATGAATCAG CTGCTTCACT AACAAGTGAA	120
<i>35</i>	GAAGTTGCTG AAACTCCTGC AGCACCTGCn GCAGTTAACA TTAGAAGGCG ACTTCCCAGA	180
	AACAACTGGA AAAAATCCCT GGCTATGCGT AGAGCAATTG CGANAACATG GGTTTAACTC	240
40	TAAGCATACT GCACCTCATG TAACATTAAT GGATGAAATT GGATGTTCAA GCATTATGGG	300
	GATCACCGTA AGAAATTTAA AGAAATCGCG GCTGAACAAG GTACTAAGTT AACATTCTTA	360
	CCTTATGTTG TTAANGCACT GTTTTCGGCA TGGNAAAAAT	400
45	(2) INFORMATION FOR SEQ ID NO: 3879:	
ě	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	·	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3879:

	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA	120
	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTG	.180
5	GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTT	240
	CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT TCTCGTTTCG	300
	TCAGATTCAA ACGTTTCACT TCGCAAGCCA TTTTTCTTTG TGTTGCnTTT ATTTGACGTT	360
o	TAGACATAAA ANAAGANCCT TGCGGNCTCA ATGCGGCCAT	400
	(2) INFORMATION FOR SEQ ID NO: 3880:	
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
0	(D) TOPOLOGY: linear	
υ		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3880:	60
5	TAGGTGTAAA TCCTGCGATT CGATCTGGAC CATATTTTTT TATTGTATAC AGTAATTGTG	
	CTGCGATTAT CTCTGTAACG TCTTTCCAAT TTGAACGCAC GTGCCCTCCC ATACCTCGGG	120
	CTTGCTTATA TTGTTTGGCT TTGTCTTCAT TTTCAACAAT AGACGCCCAT GCAGCAACGC	180
0	GATTACCATT GTTTTCTTCT AATGCTTCAG TCCATAAATC CCAGAGTTTT CCACGAATAT	240
	ATGGATATTG ATTCGAAGCG GACTGTATCA TACCAAGAGA ATGACGCACT CGTGGACATC	300
	CTCTCGGTCA TATTCAGGCA TATCCGGACA CAACTTGGAT AGCAGTTGTG ATTTCCCAGG	360
5	AATCACACCA TTTCACAAAC TTCCAGACAT GGCTGACAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3881:	
o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3881:	
	TGAGTAGCGA AAGACGGGTG AGAATCCCGT CCACCGATTG ACTAAGGTTT CCAGAGGAAG	- 60
0	GCTCGTCCGC TCTGGGTTAG TCGGGTCCTA AGCTGAGGCC GACAGNGTAG GCGATGGATA	120
-	ACAGGTTGAT ATTCCTGTAC CACCTATAAT CGTTTTAATC GATGGGGGGA CGCAGTAGGA	180
٠	TAGGCGAACG TGCGATTGGA TTGCACGTCT AAGCAGTAAG GCTGAGTATT AGGCAAATCC	240

	TCACACTGCC GAGAAAAGCC TCTAAGATAA GAAAATTAGG TGCCCGTACC GCAAACCGAC	360
	ACAGGTAGTC CAAGATGGAG ANTCTNAAGG TGGAGCGAGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3882:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 609 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3882:	
•	CATCCCCAAC TTGCACATTA TTGTAAGCTG ACTTTTCGTC ACTTCTGTGT TGGGGCCCTC	60
	ACCCCAACTC GCATTGCCTG TAGAATTTCT TTTCGAAATT CTCTGTGTTG GGGCCCCTGA	120
20	CTAGAATTGA AAAAAGCTTG TTACAAGCGC ATTTTCGTTC AGTCAACTAC TGCCAATATA	180
	ACTTCGTAGA GCATAGAATA TTGATTTATG TCCCAGCCTG AGTTAATTTT CTATAAAAGT	240
	ATATTTAATT TGCGTTTATA CCGTCAAACT TCACTTTAGC TTTGTCAAAC CCCTTTCTAT	300
25	TAAGTTTTCA GAAATAAACC TATCTTAAAA TATAAAAAAA TCGAGAATTC GTAGTTTAAT	360
	AACGAAATTC TCGTTCTTAT CCTTTTGaAT aTACTCAATT TTCCACAAAA ACAAACAAGT	420
30	AGTATATCTG TTCTAGCTAC TAGAATGACA TACTACTTGT TATTAAAATA CTTAACTAAA	480
	CTTTATTAGT TATCTTTnTT CTCTATATTT CTACGTGGAC TGACGCTTTT CANGAATGTC	540
	AGATTCATAA TCTTCTTGGT TGGACTCCTG GATATATTCT TGGTAAGCGG ATGGTTTATT	600
35	CGGAGTCAA	609
	(2) INFORMATION FOR SEQ ID NO: 3883:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4.5		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3883:	
	ATATATTGGC GGACATAACG ATGTACTAGC AGGTGTCGTA ACCGTCAAAG ATGAATCACT	60
50	CGCGCAACAG TTGTTTGATT TTCACAACAT GACTGGCGCA ACACTTTCAC CAATAGATAG	120
	TTATTTGTTG TTACGTGGAC TTAAAACTTT GCATTTACGC ATTGAGCGTG CGCAATCAAA	180
	CGCTAGAAAA CTTGCTAAAA AATGTCAGTC ACTTCAAGCA ATTGACGAAt ACTATATAGC	240
5 5		

	GAAAATTTAG ACATTTGCAT TTTTGCAGAA AGTTTAGGAG GTACKGAAAC ATTAGTGACC	360
	TTCCCTTACA CCCAAACACL GTTGATATGC CAGT	394
5	(2) INFORMATION FOR SEQ ID NO: 3884:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3884:	
	CGATTAATGA ATTAACAGAA TACGGACCAG AAACGATAAC ACCAGGTCAT CGAGACGAAT	60
	TTGATCCGAA GTTACCAACA GGAGAGAAG AGGAAGTTCC AGGTAAACCA GGAATTAAGA	120
20	ATCCAGAAAC AGGAGACGTG TTAGACCACC GGTCGATTAG CGTAACAAAA TATGGACCTG	180
	TAAAAGGAGA CTCGATTGTA GAAAAAGAAG AAATTCCATT CAAGAAAGAA CGTAAATTTA	240
	ATCCTGATTT AGCACCAGGG ACAGAAAAAG TAACAAGAGA AGGACAAAAA GGTGAGAAGA	300
25	CAATAACGAC GCCAACACTA AAAAnTCCAT TAACTGGAGA ATTATTAGTA AAGGTGATCG	3,60
	AAAGAGGAAT CACAAAAGTT CCnTTTATGA TTAACAGATA	400
	(2) INFORMATION FOR SEQ ID NO: 3885:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
33		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3885:	
40	TGAGCGGATT ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG	60
	CTTGGTAAAA TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGGC	120
	CTAAGTGGAC TCGAACCACC GACCTCACGC TTATCAGGCG TGCGCTCTAA CCAGCTGAGC	180
45	TATAGGCCCA TTTTTTTGAA TGTTAAATAA ACATTCAAAA CTGGAATACA ATATGTCACG	240
	TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG	300
50	CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC	360
	GACGGCTAGC TCCCAAAAGG GTACTnCCAn CGGGnTTCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3886:	٠,

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3886:	
10	TACGGTAGGT GGCAAGCAGT TATCCNGGAA TTATTGGGCG TAAAGCGCGC GTAGGGGTTT	6
	TTTTAAGTCT GATGTGAAAG CCCACGGCTC AACCGTGGAG GGTCATTGGA AACTGGAATn	12
15	CTTGAGTGCA GAAGAGGAAA GTGGAATTCC ATGTGTAGCG GTGAAATGCG CAGAGATATG	18
	GAGGAACACC AGTGGCGAAG GCGACTTTCT GGTCTGTAAC TGACGCTGAT GTGCGAAACG	24
•	TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC GTAAACGATG AGTGCTAAGT	30
20	GTTAGGGGGT TTCCGCCCCT TTAGTGCTGC AGCTAACGCA TTTAAGCACT CCGCCTGGGG	36
	GAGTTACGAC CGCAAAGTTT GGAAACTCAA AGGGAATTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3887:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3887:	
	ATTTTTAAT TTTCATGCAA ATTTTTAAGC ACCATATAAT GCCTACCAAA TTTCAATAAT	6
35	CTTTGTTGCC GTTTAAATAA TGTGAATGTC AATAAATTCT CCAAACTAGT CGAAAATAAA	12
٠.	GGGAGTNGGA CATAAATCCC TAAAAAAACA GCAGTAAGAT AATTTTCAAT TAGAAAATAT	18
40	CTTACTGCTG TTCTCTATTT ATACAATACT TCGTATTGAA TGGCTTCGCT TTCChAGGGT	24
	GCCGTCTCAG CCTCGGTCTT CGACTGGCAC TGCTCCCTCA GGAGTCTCGC CATTAATACT	30
•	ACGTATTAAC ATGGAATTTT ACTTTTACAT ACTTTAAAAA ATAAGNCACT TTGGCCAACT	36
45 ·	TACACTACCA TAGGAACCCT GGTAGGAATC CCCCAAATGn	40
	(2) INFORMATION FOR SEQ ID NO: 3888:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATACGACAAT CACAGCAATA ATAATTGCTT TAGAAAGTCG TGCCGAACTG GAACTTACAA	60
	GTCTAGTTCG AACACACT GATGTGAGTG GTTTTATTTA TTTTAAACAT GAACAATCAG	120
5	ATAAGTTACT AGCATTAGCA AATATTATTA AATCAAAGGG CTTCGATTCA TAAAATTAAA	180
	ACAATGATTA AAATTAGACG TGTAAATGTT AAATTCTAAA ACGGAAATAA CCACCATCCC	240
10	ATTANACCAC TTTNATNGTT CAATCACTAT ATTTCACACA GCTTCATTAA TAAAACGACT	300
	TGCTTCAACC CGCTTCAACT TCAACTGGCT TCAACTTCAG CCTACTTCAT TCAATNACAA	360
	AACGAATCCG CTTCATCCAA AATCAnCCAT TCTAACGCAC	400
15	(2) INFORMATION FOR SEQ ID NO: 3889:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3889:	
	CCATGCNAGA CGCATACATT GTaGCTTATG GGCGTTCAGC GCAGCGAAmG aAAGCAAGGC	60
	GCATTATTCC ACGAAAGACC TGATGATGTC GCAGCCAAAG TATTACAAGG CGTATTGAAA	120
30	CGTATTGACG GAAAATTCAA TAAGAATATG ATTGAAGATG TCATTGTTGG TACGGCTTTT	180
	CCAGAAGGAT TACAAGGCCA AAACATTGCA CGAACGATTG CATTGCGTGC GGGATTATCT	240
	GACACGGTAC CGGGTCAAAC AGTGAATCGC TACTGCTCAT CAGGATTACA AACCATCGCG	300
<i>35</i>	ATTGCAGCCA ATCAAATTAT GGCTGGTCAA GGAGATATAC TTGTAGCTGG TGGCGTTGAA	360
	TTGATGAGTG CCGTACCAAT GGGTGGCAAC GAGCCCACAA ACAATCCAAC CTTWACAATA	420
40	tGaTGATATA GGTGCGTCCA TATNCCTATG GGTTTNAANT GCTGGAAAAT GTTAGCCTNC	480
40	CCAAT	485
	(2) INFORMATION FOR SEQ ID NO: 3890:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3890:	
	AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC GGGACTCGAA	60
<i>55</i>		

	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC		180
	TGTGGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAANTGAAT TCGGACTACC		240
5	ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA CCTCCTTGCT		300
	ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTG AAGTAAAAGT		360
10	GGTTTTGCnT CGCAAAACAT TTATTTTGn		389
10	(2) INFORMATION FOR SEQ ID NO: 3891:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3891:		
	CAGATGTTTA AGTCCTGTGC GTCTGCCAGT TCCGCCACCC CGGCACTATA AAAATGGAGC		60
25	AGAAGACGGG ATTCGAACCC GCGACCCCAA CCTTGGCAAG GTTGTATTCT ACCGCTGAAC		120
·	TACTTCTGCA TATGCGGGTG AAGGGAGTCG AACCCCCACG CCGTAAGCTn AGATCCTAAG	. ~.	180
	TCTAGTGCGT CTGCCAATTC CGCCACACCC GCAAATGGTG AGCCATAGAG GATTCGAACC		240
30	TCTGACCCTC TGATTAAAAG TCAGATGCTC TACCAACTGG AGCTAATGGC TCTTCCATGG		300
	TGCCGGCCAG AGGACTTGAA CCCCCAACCT ACTGGATTTA CAAGTCAGTT TGCTCTACCA		360
•	ATTGGAGCTA GGGCCGGGCA ATATGGTAAG AATAAATTGG		400
35	(2) INFORMATION FOR SEQ ID NO: 3892:		
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
40	(D) TOPOLOGY: linear		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3892:		
	CTCTCGGTGG TCGTGCTACA ACTGGTAAAA ATGTACATGT AGGGGCTGGC GCAGTATTAG		60
	CAGGTGTGAT TGAACCCCCT AGTGCTTCAC CGGTTATAAT CGAGGATGAT GTATTAATCG		120
50	GTGCAAATGC AGTTATTTTA GAAGGTGTAC GTGTTGGTAA AGGTGCTATT GTTGCAGCTG		180
	GCGCGATTGT GACACAAGAT GTACCAGCTG GTGCAGTTGT TGCTGGTACA CCTGCAAAAG		240
	TGATTAAGCA AGCTTCTGAA GTACAAGATA CTAAAAAAGA GATTGTAGCA GCATTAAGAA		300

	CCACCNTAAT GGTNTAGCAT TGAATAAACT TATGNNCCCC	400
,	(2) INFORMATION FOR SEQ ID NO: 3893:	,
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3893:	
15	GAATGTAGTT GTGGTAAATA CAAACGTGTT CGCTACAAAG GCATGGTCTG TGACAGATGT	60
	GGAGTTGAAG TAACTAAATC TAAAGTACGT CGTGAAAGAA TGGGTCACAT TGAACTTGCT	120
	GCTCCAGTTT CTCACATTTG GTATTTCAAA GGTATACCAA GTCGTATGGG TATTATTACT	180
20	TGACATGTCA CCAAGAGCAT TAGAAGAAGT TATTTACTTT GCTTCTTATG TGTTGTAGAT	240
	CCAGGTCCAA CTGGTTTAGA AAAGAAAACT TTATTATCTG AAGCTGAATT CAGAGATTAT	300
	TATGATGAAA TACCCAGGTC AATTCGTTGC CAAAAATGGG TGCCAGAAGG TCATTAAAAG	360
25	ATTTACTTGA AGNNGATTGA TNCTTGACGA GGGAACTTNA	400
	(2) INFORMATION FOR SEQ ID NO: 3894:	
30 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3894:	
	CACGTGAAGT TAGAGATACT TCATTACGTG TACCTCACGG CGCTGGCGGT ATCGTTCTTG	60
40	ATGTAAAAGT ATTCAATCGT GAAGAAGGCG ACGATACATT ATCACCTGGT GTAAACCAAT	.120
	TAGTACGTGT ATATATCGTT CAAAAACGTA AAATTCATGT TGGTGATAAG ATGTGTGGTC	180
	GACATGGTAA CAAAGGTGTC ATTTCTAAGA TTGTTCCTGA AGAAGATATG CCTTACTTAC	240
45	CAGATGGACG TCCGATCGAT ATCATGTTAA ATCCTCTTGG TGTACCATCT CGTATGAACA	300
	TCGGACAAGT ATTAGAGCTA CACTTAGGTA TGGCTGCT&A AAATCTTGGT ATTCACGTTG	360
50	CATCACCAGT ATTTGACGGT GCAAACGTTG ACGATGTATG GTCAnCAATT GAAGAAGCTG	420
50	GTATGGCTCG TGATGGTAAA ACTGTACTTT ATCGATGGAC GTACCAGGTG ACCCNTCCGA	480
	TAACC	485

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 507 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3895:	
10	GAACAACATA CCTTTGTTTG TTGATTCTTC TCCACCTGTT TCAAGTAGTT CAGATTTCTT	6
	AGATTGTGGT TTTTTAGTTG GTGCCACTGc TTTAACCTTT TCATTGATTT CAATAACAGG	12
	TGTTACTACT TTACCTTGTT CCACTGGTTT AGAAGGCTTT TTAGGTTCTT CTTTGGCAGG	18
15	TGGTACTGGT TTACCANGTT CAGCTGGTAC CTCTGGTGTT GGCGGTGTTG GAGTTTCTGG	24
	CTCACTCGGC ACTTCTGGTG TCGGTGGTGT TGGTGTTTCC GGCTCACTTG GTACTTCTGG	30
20	TGTTGGTGGC GTTGGTGTTT CCGGCTCACT TGGTACTTCT GGTGTCGGTG GCGTTGGLGG	36
	CACGATTGGA GGTGTTGTAT CTTCTTCAAT CGTTTGTTGA CCTTCATTTT GGGCCGCTTA	42
	CTTTTGGGAA GTGTATCTTC TTCAAAGTCA ACACTAATGT GGTCCACCGG AATTGATAAC	4.8
2 5	TGGGGTTAAC CTTAAATTGG AACCTCC	50
	(2) INFORMATION FOR SEQ ID NO: 3896:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3896:	
•	CTAGCGGAAG TAATTGGCTA CCATCGTCGC TAAAGACCTT nGGnGACTTG TGACAATCGC	6
40	TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG	12
	CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG	18
	TTTACTTTTT ATTTTGACGT TTTAGGCATA AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	24
45	CTCATCGCAT CCATTTTTG CCTGGCAACG TTCTACTCTA GCGGAANGTA ATTGGGCTAC	30
	CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG	36
50	GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	40
50	(2) INFORMATION FOR SEQ ID NO: 3897:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3897:	
	TTGAAGAAGA TCGCGATGAC TATACAATCA ATATCGAGTA TAATACCGAT TTATATCACT	60
10	CAGAAACAGT TCGTCACATG GGTAATCAAT GTATGATTAT GATTGATTAT ATTTTGAAGC	120
	ATCAAGATAC ACTACAAATT TGTGATATAC CAAACGGCAC GAGGAACTTC TAAATTGGGT	180
	CAATACGCAT GTTAACGATC GAATGCTTAA TGTCCCGGGA AATAAATCTA TCATAAGTTA	240
15	CTITAATGAA GTTGTCTCAC GACAAGGTAA TCATGTTGCG CTAGTCATGA ATGANTTGAC	300
	AATGACGTAT GAAACATTAC GCAACTATGT GGGATGCCAT TGCGCACATG CTCCTATCAA	360
	ATGGTGTGGG CAATGGTCAA CGGGTTGCCT TGGTGTACAG	400
20	(2) INFORMATION FOR SEQ ID NO: 3898:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3898:	
	GAAATCAGTA TTAAAGCAGT TAATCCACAA GGGAAAGTGG TTAATACAGT TGGCTCTGGT	60
	GATAGTACAG TTGCAGGCAT GGTGGCTGGA ATTGCTTCAG GTTTAACGAT TGAAAAAGCA	120
<i>35</i>	TTCCAACAAG CAGTCGCATG CGGTACTGCC ACGGCATTTG ATGAGGACTT AGCAACACGG	180
	GACGCTATAG AAAAAATAAA ATCACAAGTT ACGATTAGCG TACTTGATGG GGAGTGAAAA	240
	TAATGAGAGT AACAGAGTTA TTAACAAAAG ATACAATAGC AATGGATTTA ATGGCAAATG	300
40	ACAAAAATGG TGTTATTGAT GAGTTAGTAA ATCAATTAGA CCAAGCAGGT AAATTAAGTG	360
	ATGTCGCGTC ATTTAANGGA AGCGATTCAC CATCGNGATC	400
	(2) INFORMATION FOR SEQ ID NO: 3899:	
45		
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3899:	

	CTAGCGGAAC GTAAGTTAGC TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC	120
	GCTTGCTTCT TTCCTCTCT TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG	180
5	CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG	240
	TGTTTACTTT TTATTTTGAC GTTTTAGACA TAAAAAAAGA nACCTCACGG TCTCAACTTG	300
	CCTGGCAACG TTCTACTTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TDAAAGACCT	360
10	TTCTTGGACT TGTGGACAAT CGGCTTGGCA nTCTTTnCTC	400
	(2) INFORMATION FOR SEQ ID NO: 3900:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3900:	
•	TGCACGCGTA TCTGATGGTT GCTCAGTTGC ATCTACCCAA GGTAACCATT CCCTAAGTGA	60
25	ATTTCTTGAA CGATTGACTA AATTGAAAAG CGCTTCTGTG TCATGAGCTT CTAAAATTTT	120
	TAATGTTATT TGTTCATTCA CTTTCATTCC AAACATACCA TCACATCCTC ATTCATTTTT	180
30	CATATAATTC TGTAAATTAT CATTATAATA ACATATTAAT GTTACGCATT GTATCTTAAA	240
<i>.</i>	TTTGTTGTCC TTCCCCAACT TGCATTGCTT GTAGAATTTC TTTTCGAAAT TCTCTATGTT	300
	GGGGCCCGCn AACTTGCATT GTCTGTAGAA ATTACGGACC CAATTTCTCT AGGTGGGGCC	360
35 -	CATCCCCAAC TTGCACATTA ATMGCAAGCM GACTTTCCGT	. 400
	(2) INFORMATION FOR SEQ ID NO: 3901:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3901:	
	TACTGCTGTT CACTTTTTAT AATACTTCTG AATGTCTTCA CTTATACTTC TAGTCACAGA	60
	TTTAAATAAT CAAAAGTGCA CATTATTAAA ATATCAATTT CACACTCAAT GCGGCTCATC	120
50	GCATTCATTT CTTGTCTCAA CGTTCTACTC TAGCGGAAGT AAGTTAGCTA CCATCCTCGC	180
	TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT	240

	TTTCACTTCG CCAAGCCATT TTTCCTTGGT GGTTTACCTT TTAATTTGGA CGGTTTAGAC	360
	ATHAAAAAAG GGGACCTCAC GGGCCCAACT TGGCCTGGGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3902:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3902:	
	TTATTTTGAC GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG	60
	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	120
20	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	180
	CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT	240
	TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGGCATAA AAAAAAGAGA CCTTGCGGTC	300
25	TCAATGCGGC TCATCGCATC CATTTTTTGC CTGGGCAACG TTCTACTCTA GCGGGAACGT	360
	AAGTTGGGCT ACCANCGGCG GCTAAAGACC TTTCCTGGAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3903:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3903:	
40	TTGTTATAAC GAAAACCATT AATAGATTIT TATTTGGTGA TTTCAAATCA TGAGACTGGG	60
	ACAGAAATGA TGTTTTCATA AAAATTATTT CGTTGTTCCA CTCTCATGAT TTTTTTGATG	120
	AAACATAATT ACATGATTGA TTGCATCATT TTGTTAAACA AGTGATTGCA AACCTGCCAT	180
45	TTCACACTGA AAATTTACAT AATAAGTGAC GATATTTTAC AAGTCATATA CAAATAACAT	240
	ATATTGTTAA ATAATTTTAC CTAATCTTAA CATTAAATTT ACAATTATAA GCGATAATCT	300
50	AAATATAAAG CTTATTTGAG GTGAAATAAT GGAAATGTCG GTTACAGAAG TCATTTTCTC	360
50	CTTTTTAGGT GGGTTTAGGG AATTTCCNTT ACGGCCTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3904:	

5	 (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3904:	
10 ~	CATAAGACAT AATCGCTAGT GTTCGAAAGA GCACTCACAA GATTAATAAC GCGTTTCCTG	60
	TAGGATGGAA ACATAGATTA AGTTATTAAG GGCGCACGGT GGATGCCTTG GCACTAGAAG	120
·	CCGATGAAGG ACGTTACTAA CGACGATATG CTTTGGGGAG CTGTAAGTAA GCTTTGATCC	180
15	AGAGATTTCC GAATGGGGAA ACCCAGCATG AGTTATGTCA TGTTATCGAT ATGTGAATAC	240
	ATAGCATATC AGAAGGCACA CCCGGAGANC TGAAACATCT TAGTACCCGG AGGAAGAGAA	300
	AGAAAATTCG ATTCCCTTAG TAGCGGCGAG CGAAACGGGA AGAGCCCAAA CCAnCAAGCT	. 360
20	TGCTTGTTGG GGTTGTAGGG CACTCTATAC GGAGTTACAA	400
	(2) INFORMATION FOR SEQ ID NO: 3905:	
2 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3905:	
	AACTAACATT ACAACATGCA TGTGAACAAT TAAAAACATA TTTTAAGTAG GTGAATGAAA	60
35	TGGTAAATGA ACAAATCATT GATATTTCAG GTCCGTTAAA GGGCGAAATA GAAGTGCCGG	120
	GCGATAAGTC AATGACACAC CGTGCAATCA TGTTGGCGTC GCTAGCTGAA GGTGTATCTA	180
	CTATATATAA GCCACTACTT GGCGAATECG TCGTACGATG GACATTTTCC GACTGTTAGG	240
40	TGTAGAAATC AAAGAAGATG ATGAAAAATT AGTTGTGACT TCCCCAGGAT ATCAATCTTT	300
	TAACACGCCA CATCAAGTnT TGTnTACAGG TAATTCCGGG TACGACAACA CGATTGATAG	360
45	TTTGGTTAAT GGGTTAAGTA TTGAAAGTGT TTTGTCCGG	399
45	(2) INFORMATION FOR SEQ ID NO: 3906:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTCTTTAAAA ATAAACGCCT ATMCGTTATC GGTGGTGGTG ATTCAGCAGT AGAAGAGGGA	60
	ACATTCTAAA CTAAATTTGC TGACAAAGTA ACAATCGTTC ACCGTCGTGA TGAGTTACGT	120
5	GCACAGCGTA TITTACAAGA TAGAGCATTC AAAAATGATA AAATCGACTT TATTTGGAGT	180
	CATACTTTGA AATCAATTAA TGAAAAAGAC GGCAAAGTGG GTTCTGTGAC ATTAACGTCT	240
10	ACAAAAGATG GTTCAGAAGA AACACGAG GCTGATGGTG TATTCATCTA TATTGGTATG	300
,,	AACCATTAAC AGCGCCATTT AANGCTTAGG TATTACNAAT GATGTTGGTT ATATTGTGAC	360
	AAAGGTGGAT TGGCCAC	377
15	(2) INFORMATION FOR SEQ ID NO: 3907:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 502 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3907:	
25	AATTAGGTAA TTCAAAATAA TATTAGCGCG GGATGGAGCA GTTCGGTAGC TCGTCGGGCT	60
	CATAACCCGA AGTCGGLGGT TCAAATCCGC CTCCCGCAAT ACATAGTTTT TAATTTAATA	120
	GGTCTCGTAG TGTAGCGTTT AACACGCCTG CCTGTCACGC AGAGATCGCG GGTTCGATTC	180
30	CCGTCGAGAC CGCCATTATT ATTACCATTA CGGTTCAGTA GCTCAGTTGG TAGAGCAATG	240
	GATTGAAGCT CCATGTGTCG GCAGTTCGAC TCTGTCCTGA ACCATTCTTA ATTCATGGCG	300
35	GTTGTGGTGA AGTGGTTAAC ACATCGGATT GTGGTTCCGA CATTCGAGGG TTCGATCCCC	360
	TTCAGCCGCC CCATAATCGT TTACATTAGC GGGTGTAGTT TAATGGCAAA ACCTCAGCCT	420
	TCCAAGCTGA TGTTGTGGGK TtCGrTTCCC AtCAMCCNGy TCCaTaATTT CNAANAATTC	480
10	CAACAGTAGC CGCAAGTnGG TA	502
	(2) INFORMATION FOR SEQ ID NO: 3908:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3908:	
	TARTCARCA CONC. CONC. CONC. NORTH AND TRATTCCOTCAG. CCAACCAAAA TAATCAACAC	60

	TAAGTATCAT ATTGTCTTTG CACCTAAATA CAGAAGACAA GTGATATATG GAAAAATAAA	180
•	AAAAGATATA GGGATTATAT TGCGTCAATT ATGTGAAAGA AAAGGTGTAG AGATAATTGA	240
5	AGCAGAGGCA TGTAAAGATC ATATCCATAT GTTAGTTAGT ATACCACCCA AACTTGGGGG	300
	TATCATCATT TGTTGGGCTA TTTAAAAGGG AAAAAGTAGT TTAATGGATA TTTGGATAGA	360
	CATGGCTAAC TTAAAGTATA GATATGGGAA ATAGGAAAGT	400
10	(2) INFORMATION FOR SEQ ID NO: 3909:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3909:	
	GGTTTAACTA TTGAAGAAAA TGTGCCGACA ATTAACAAGA TAAAAAATGC GGTATATTCA	. 60
	GCAGATAAAG CTTTACCTAA GATTAATGAC TTTGCGAATA AAATTGTATA TTTGAATAAC	120
25	CACCAAGCGG ATTTAGATAA ATATGCCAAT GATTTTAGAA AACTAGGAAA TTATAAAGGT	180
	GATATTTTAG ATGCTCAGAA AAAATTAAAC GAGTCAATGG TGCTATTCCG CAACTTAATG	240
•	AAAAGGCTAA GTTGGATATT AGCTTTTAAA TAATTATATG CCGGAAAATT GGAAAAAGCG	300
30	TTTAAATTTT GCAGCTGGAT GACGTGCCAC GCNGTTCCCT AAAATTAATC CAGGGCTTAA	360
	CATTGCGAGT CCAGGTATTG GnTCCAAGCT AATGGGGCCG	400
35	(2) INFORMATION FOR SEQ ID NO: 3910:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(D) IOPOLOGI: IIIleai	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3910:	
45	TTACCCGATA TCGGGAAGGT ATCCACGAAG GTGAAATTGT AAAATGGTTT GTTAAAGCTG	60
	GAGATACTAT TGAAGAAGAC GATGTTTTAG CTGAGGTACA AAACGATAAA TCAGTAGTAG	120
	AAATCCCATC ACCAGCATCT GGTACTGTAG AAGAAGTTAT GGTAGAAGAA GGTACAGTAG	-180
50	CTGTAGTTGG TGACGTTATT GTTAAAATCG ATGCACCTGA TGCAGAAGAT ATGCAATTTA	240
	AAGGTCATGA TGATGATTCA TCATCTAAAG AAGAACCTGC GAAAGAGGGA AGCGCCACAG	300

	GCCATGCCTT CCAGTTACGT TAAATACGCA CGTGGAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 3911:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3911:	
	CGTGTAnCTC AAGTTATGGG TCCTGTAATT GATGTTCGAT TTGAACATAA CGAATTCCTA	60
15	AAATTAATAA CGCCTTGGTT ATTGATGTGC CTAAAGAAGA AGGTACAATA CAACTAACAT	120
	TAGAAGTTGC GCTGCAATTA GGTGACGACG TTGTTCGTAC AATTGCGATG GATTCAACTG	180
20	ATGGTGTCCA AAGAGGCATG GATGTAAAAG ATACAGGCAA AGAAATTAGT GTACCTGTTG	240
	GTGACGAAAC ATTAGGTCGT GTATTTAATG TACTAGGTGA AACAATTGAC CTTAAAGAAG	300
	AAATTAGTGA TTCTGTTCGC CGCGATCCTA TCCATCGTTC AAGCACCAGC ATTCCGATGG	360
25	AACTITICAA CAGAAGITCC AAATITITAG GNACAGGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3912:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(D) TOPOLOGI: Timear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3912:	
	TTGTACAAGT TGAAGAAAAA TCAACACAAC CAAAAGGTAG AAAATTCAAA GATTTCACTA	60
40	GTAAATTTAA TATAGCATCA GAAGCTAAAG AAAATGAACC TATATCAGTC ATTGGTTATC	120
	CAAATCCTAA TGGAAATAAA CTACAAATGT ATGAATCAAC TGGTAAAGTA TTATCAGTGA	180
	ATGGGAATAT AGTGTCATCG GATGCAATTA TTCAGCCTGG TAGCTCTGGT TCACCTATAT	240
45	TAAATAGTAA ACACGAnGCT ATTGGTGTAA TCTATGCCGG TAATAAGCCA TCAGGTGAAA	3,00
	GCACCAGAGG GATTTGCTGT TTATTTCTCT CCTGAAATTA AGAAATTCCA TTGCAGATAA	360
;	TTTAGATAAA TNATTAAGAC CTANGACATT CACCCAATCC	400
50	(2) INFORMATION FOR SEQ ID NO: 3913:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3913:	
	ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	. 60
	TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGACATAA	120
10	AAAAAAGAGA CCTTGCGGTC TCAATGNGGC TCATCGCATC CATTTTTTGC CTGGCAACGT	180
	TCTACTCTAG CGGAAGTAAG TTGGCTACCA TCGACGCTAA GAACCTTTCT TGACTTGTGA	24(
15	CAATCGCTTG CTTCTTTCCT CTTCTTCGGC TCTCGCTTAC TCATTTAGGT CTACTAAACT	300
	CGTTGCGCTC TTTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT	360
	CTTTGGGGTT TGCnnTTTGA ATTTGGACGT TTTAGACATA	400
20	(2) INFORMATION FOR SEQ ID NO: 3914:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:	·
	TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCAT CAACTAATGG ATATTTATGT	61
	CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT	120
35	GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG nGCCACACCT TGTGTTGGCT	186
	CGCCGCCTGA ATTCAATCCA TAACGTGCTG TATCTGTAGC AATAACTAAT ACTTTTCAT	24
	TCGGTCTAGT TGCTAAATAA TCTTTAGCTA ATTGAATTGC TGGTGTTGCA GCATAACAAG	300
40	CTTCTTTCAT TTCAAAGCAG CGTGCAAAAG GTTGGDATAC CTAATAAGTT GTGGAATTTG	360
	NACAGCGGCT GCTTTACGAA TTCCAACTGC TGATTCCAGT	40
	(2) INFORMATION FOR SEQ ID NO: 3915:	
<i>45</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3915:	

•	· ·	
	TCTTTATTTA TCCAGTTTCA TAGTCAATGT TTAAAGCAAA ATCTTATTGA TGGTACAAAA	120
	GTAGAAGCTA ATGCCAATAG GTATACATTT GTGTGGAAGA AAAGTATTCA AAATCACGAA	`180
5	TCGAAATTGA ACGARAATTC AAAAACATTA TATCGTGACT TAGTTGAAGA AAAAATAATA	240
	CCAGAGATAA AAGAAGATGG AGATAGCGAT TTAACAATAG ANGAAATAGA TTTAATTGGT	300
_	AGTCATTTAG ATAAAGAAAT CGAGGTTTAA ATCATTCTAT TGAGACGNGA TAGTACTCAA	360
10	ATTAGAAACA G	371
	(2) INFORMATION FOR SEQ ID NO: 3916: .	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3916:	
	ACCATGGACG ACGGTTAGGT TTATGAATGT TATTCCAAAT AGGTTCATCT ATAAAATAGC	60
25	TTTAGTTGGA AAAGATGAGA AAAAATATAA AGATGGACCT TACGATAATA TCGATGTATT	120
	TATCGTTTTA GAAGACAATA AATATCAATT GAAAAAATAT TCTGTCGGTG GCATCACGAA	180
	GACTAATAGT AAAAAAGTTA ATCACAAAGT AGAATTAAGC ATTACTAAAA AAGATAATCA	240
30	AGGTATGATT TCACGCGATG TTTCAGAATA CATGATTACT AAGGAAGAGA TTTCCTTGAA	300
	AGAGCTTGAT TTTAAATTGA GAAAACAACT TATTGAAAAA CAGATCTTTA CGGTAACATG	360
35	GGTTCAGGAC AATCGTATTA AATGAAAACG GGGGAATATA	400
	(2) INFORMATION FOR SEQ ID NO: 3917:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3917:	
	GAGGAAATTA TTAACCTTMC GCATCGTATG GGCCMTGAAG GAATAACAAC CTTTAGACCT	-60
	GGAGATTGAG CTAAAATACC TTCTAAGTTA TCTGCGTGTA ATTCTGGTGT GTGTACGCCA	120
50	CCACCAAATG GGCTACGAAT TGTTACAGGT GCAGTTTTAG TACCGCCTGA ACGGAAACGA	180
	GTACGTGCAA TTTGTCCAGC AATCGCATCA AATACTTCGA ATACGAAACC TAAGAATTGT	240

	GATTCAGCTA AAGGTGTATC GAATACTCTA TCTTCACCAA ATTCTTTTTG TAGTCCTTCA	360
_	GTAACACGGA AAACACCGCC GTTAACACCA ACGTCTTCAC CANAATNAAA AC	412
5	(2) INFORMATION FOR SEQ ID NO: 3918:	
-10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3918:	
	ATAGATTGCT GAGTGACAAT ACTTCAGGAN TCGCATATGC AGGCCCAATA CCCATAATTT	60
	TCGGGTCAAC GCCTACTGCC TTAAAACCAA CGAATCGTGC AATAGGTGTC ACGCCGAGTT	120
20	CTTTCACTTT ATCTCCAGAC ATTAAAACTA CAAATCCTGC ACCATCAGAA AGTGGGGCAG	180
	ATGTTCCTGC AGTCATAGTG CCGTCAGCTT TAAATACTGT ACGTAATTTG GCTAATGCCT	240
25	CCATCGTGGT GTCAGGGCGT ATMAAATTCA TCTTGGTCAA AGATATTTGT GTGTACTTTT	300
	GGTCCTGCGT TTGTATATTC AACTGAGTTT ACTTGTATTG GGATNATTTC ATCTTTGGAA	360
	CCGACCATCA CGGTGTGCGT TCATAGGCAC GTTGATGNAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3919:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3919:	
	CAAGGGCAAC AAGGTGGCAA CGGCAATTAT TTAGAACAAA TTGGTCGTAA CCTTAChAAG	60
	AAGCACGTGA CGGTTTATTA GATCCAGTCA TTGGTCGTGA TAAAGAAATT CAAGAAACTG	120
45	CTGAAGTTTT AAGTAGACGA ACTAAAAACA ATCCTATATT AGTTGGAGAA GCTGGTGTTG	180
	GTAAAACTGC GATTGTTGAA GGTTTAGCAC AGGCAATCGT TGAAGGAAAT GTACCAGCAG	240
	CAATCAAAGA CAAAGAAATT ATTTCTGTAG ACATTTCATC ATTAGAAGCT GGAACGCAAT	, 300
50	ATCGTGGTGC TTTTGAGGAA AATATTCCAA AATTAATCGA GGTGTTAAnC TTCACAAATG	360
	CCGTACTATC TTTGATGAAn CCATCAATTA TCGGTTCAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3920:	

(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

		**
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3920:	
10	CTTATCCCGT CCACACATAG CTACCCAGCT ATGCCGTTGG CACGACAACT GGTACACCAG	60
	AGGTATGTCC ATCCCGGTCC TCTCGTACTA AGGACAGCTC CTCTCAAATT TCCTACGCCC	120
	ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	180
15	ATGGGCGAAC AGCCAAGNCC TTGGGACCGA CTACAGCCCC AGGATGCGAT GAGCCGACAT	240
	CGAGGTGCCA AACCTCCCCG TCGATGTGAA CTCTTGGGGG AGATAAGCCT GTTATCCCCG	300
	GGGTAGCTTT TATCCGTTGA GCGATGGCCC TTCCATGCGG GAANCAACGG ATTCACTAAA	. 360
20	GTCCGTCTTT TCGAACCTGG CTCGGACTTG TAGGTCTCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3921:	
		•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(b) Torollog1. Island	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3921:	
	CGGGTTGGGC AGGTATGTTG TATTACCGTT CACAGCAGCA TCACTTTGAA CAACATTTGT	60
<i>35</i>	TAACGGATTA TTTGGCAATT CGGTTAGTTG TCGAACAATT GCTAGTTGGT GATGAGTTTA	120
	AGTCAGTCGC TAAAGATTGT GAAAGTAGAT CGGAAAATTG GTTTAAGCAA ACTGTTGCAT	180
	CATGGTGTTA CTACAGTGGA TATGCCTAGC GATGTATTAC TACAACATGA CGTCAATGAA	240
40	ATTCAAACGT TTATTCATTT TGGCAGCAAC TATGGAATAA AAATGTATTT AAAATTTATG	300
	GCTNAATTGC CNGGGGAAAT GACATACGGG ATCTCAGTTT AAAACAAAAA TTAAAGCAGG	360
45	TCATGGAAAG TGTGGCGGGC GCCTTAGGTG TNAACCCAGT	400
43	(2) INFORMATION FOR SEQ ID NO: 3922:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
50 `	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTTTTTTGA ATGTTAAATA AACATTCAAA	60
5	ACTGAATACA ATATGTCACG TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC	120
5	TTAGAAAGGA GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC	180
	CAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGCTTCGGGT	240
10	GTTACAAACT CTCGTGGTGT GACGGGCGGT GTGTACAAGA CCCGGGAACG TATTCACCGT	300
	AGCATGCTGT ATCTACGTTT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC	360
	AATHCGAACT GAGGAACAAC TTTTATGGGG TTTGHTTTGH	400
15	(2) INFORMATION FOR SEQ ID NO: 3923:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3923:	
	AGTAAGTAAA ATATAGATTT TACCAAGCAA AACCGAGTGA ATAAAGAGTT TTAAATAAGC	60
***************************************	TTGAATTCAT AAGAAATAAT CGCTAGTGTT CGAAGAACTC CACAAGATTA ATAACGCGTT	120
30	TCCTGTAGGA TGGAAACATA GATTAAGTTA TTAAGGGCGC ACGGTGGATG CCTTGGCACT	180
	AGAAGCCGAT GAAGGACGTT ACTAACGACG ATATGCTTTG GGGAGCTGTA AGTAAGCTTT	240
	GATCCAGAGA TTTCCGAATG GGGAAACCCA GCATGAGTTA TGTCATGTTA TCGATATGTG	300
35	AATACATAGC ATATCAGAAG GCACACCCGG AGAACTGAAA CATCTTAGTA CCCGGAGAAG	360
	AGAAAGAAAT TCGnTCCCTA GTACCGCGAn CGAAACGGGA	400
40	(2) INFORMATION FOR SEQ ID NO: 3924: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3924:	·
	ATGCGATACG TAGCACAGCT GCAACAATCC ATGCTAGTAA AATCGGAGAC ATCTCTGTAC	 60
50	CTTCAAACTA GCAATTGTAT TTCCGACACC GCCGTCAATT AATACTTGTT TAATGTACCG	120
	CCACCGCCAA TAATCAATAA CATCATTCCG ATTGGATAAA TCGCATTCGT CACTGATTCC	180
	COUCOCCUE IUNITERINE MINISTER INTOMINE TOURS	, •

	GCTATTAGCA TGGCTGTCCC TGCTGTTCCT ATCATATAAA TGATAGATTC AAATAGATTT	300
_	GTAGGGTTGT CATGCCCAGT TACAAGTTGC GTTGATCGTn GACACTAACA TTAATATGAC	360
5	TGGTAATGTT GCTGTTAATA AACTCATACC AAnTCCGGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3925:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 525 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3925:	
	GGCTGGGCTA GCTGGATTCG AACCAACGAG TGACGGANAN AGGTCCGTTG CCTTACCGCT	60
20	TGGCTATAGC CCAATATATA GATGGTGGAG GGGGGCAGAT TCGAACTGCC GAACCCGAAG	120
	AGCCGGATTT ACAGTCCGCC GCGTTTACCA CTTCGCTACC CCTCCAGCTT ATTCATATAA	180
	TTTAATAATC AAAATGGTGG AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG	240
25	CAGATGCTCT CCCAGCTGAG CTAATTCTCC AAAATAATGA CTCCTACGGG ACTCGAACCC	300
	GTGTTACCGC CGTGAAAGGG CGTGtgCTTA ACCCTTGGAC CAAGGAGCCA TGGCTCaCAG	360
30	GTAGGACTCG AACCTACGAC CGATCGGTTA ACAGCCGATA GCTCTACCAC TGGAGCTGAC	420
	TGTGGATTAA TATTATGCCT GGCAACGTTC TGANNCTAGC GGAANTGAAT TCGGACTGAC	480
	CATCGACGCn AAGGAGCTGA ACTTCTGTGT TCGGGCATGG GGAAC	525
35	(2) INFORMATION FOR SEQ ID NO: 3926:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3926:	
45	TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGTT GCTTATTATG AAGCGATGCA	60
	TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT	120
50	ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA	180
50	GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA	240
	TACCGNACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGTAT	300
	·	

	TCCGGATAGA GGCATCCACT GGGGAACGGT TACCAATTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3927:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3927:	
15	TATCGATCAA TTTCTATCGA GTTGGACAAT GCCGAACGTG ACAAAGTTTT TACCATGCAT	60
	GGTTGCATTT AGCGCAACAT GACCATAGTT TTACTAAAGC ACAGCGCGCA AGTGATTAAA	120
	GGCTTACCCA ATGATCCTGA AATGACGATA GAGTCAGTAT TAACTCATTT TTCAATAGAT	180
20	CAGGAAGACT ACCAAGCTTA TGTTGAAGGA CATCTTTTGG CGTTACCGGG TTGGGCAGGT	240
	ATGTTGTATT ACCGTTCACA ACAGCATCAC TTTGGAACAA CATTTGTTAA CGGATTATTT	300
	GGCAATTCGG TTAGTTGTCG AACAATTGCT AGTTGGTGGA TGAGTTTAAG TCCATCGCTA	360
25	AAGATGTGGA AATAGnCCGG AAAATGGTTT TAAGCAAACT	400
	(2) INFORMATION FOR SEQ ID NO: 3928:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3928:	
	GTGCACCTAA CGCTGAAATA TCGCCTTCTC GTGTATAGCA GACGGAATCA TTTTTTGTGC	60
40	ANTITUTTAA ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA	120
	GTAATACATC TCCAACATTI GCCTTTAATT CTTTTGCGAT GACTACCGGT CCTGGATGTG	180
	GTGGTAAAAA GCCATGTGTC ACTGATAAAG CTGTTACCAT AGGTAGTCCT AGTTTTAACA	240
45	CTGAAACATT TGCGCGTTTT GCTACTGTAA ATACTAATGG AATCAGTAAG ACTAAACCTA	300
	CTTCAAAGAA CAATGCAATA CCGACGATAA ATGCTGGCAA CAAGCATTGC CCCATTGGTA	360
	CATGGTTTTT GGACCAAATT TTTGGAATCA ACGTGTCTGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3929:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3929:	
	CTCAAGGTGT TGCCTATACA GCTAAAAAAC TTAATTTAAA CGCTGTTATC TTTATGCCAG	60
10	TCACTACACC TTTACAAAAG GTAAATCAAG TAAAGTTCTT TGGAAATAGT AACGTTGAAG	120
	TTGTACTCAC TGGTGATACA TTTGATCACT GTTTAGCTGA AGCTTTAACT TATACAAGTG	180
	AACATCAAAT GAACTTTATA GATCCATTCA ATAATGTTCA TACAATTTCT GGACAAGGTA	240
15	CGCTTGCTAA AGAAATGCTA GAACAAGCAA NGTCTGACAA TGTTAACTTT GCATTATCTA	300
	TTTGCCGCAA TTGGTGGTGG CGGTTTAATT TCAGGTATTT CGTACTTACT nTTAAAACCT	360
	ATTCACCTAC CACGNAAATT ATAGGTGTTG AACCCCNAGT	400
20	(2) INFORMATION FOR SEQ ID NO: 3930:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriate propriation and TR NO. 2020	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3930:	
	ATATGATCCT ATGAAGCAAT TTTATGTAGT AAGTGGTTCT AAACATGACG CCCTTATGCT	60
	CTGTGAACAT TTATATGACG AGGTTATGGC TGTTTGCTAA nCCCAAATGA TACATCGAAT	120
<i>35</i>	GGCACATATC ATTCGTCGCA ATATGATTAC TATGATGCAT TTATTAAGCA GCAAGAAAAT	180
	GTAACATATA TTTCAACCGA TCGTGCAGAT GCTAATACAG TGTTATGTCA CTAATTTATA	240
	AAAAATAAAT GAATAAGTAA GGTTTCAACC GAGAGAATAT ATTCGTGTTG AAGCCTTATT	300
40	TGTCGTTGTG CCAAATTTGA ACGNTTTAGA TGGCAATAAG CATGACCATA CAGATTGTGT	360
	ATTATTTCCA TGnA	374
15	(2) INFORMATION FOR SEQ ID NO: 3931:	,
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3931:

	·	
	TGCTTCTTTC GCTAGCCTCG TATGGGCATC TTTATCAATA ATATACTCGC CATGACTATC	120
	TTTCGCTTTT AAGTCAATTT CATCAAACTC TTTCCCACCT GTTAACGGTG CACCACTATG	180
5 .	TCGTTTCCGA CCAAATGTAG CCTCTTGTTC TTCCAGCGCA GTACGATCCC ACGTTTCAAT	240
	GTGTATTTGA ATACGTCTGA CAACGCAATA AGTTCCATGT TTCGCCCATC CGTCATCAAT	300
	AAACACATAA TCTTTAAGTT GATTATTCTT CCTAGGATTA ATTGTTCCAC TTTAAAATGC	360
10	CATTNAAATT CTAGGTGTTT CCNTANC	387
	(2) INFORMATION FOR SEQ ID NO: 3932:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3932:	
	AAGGTAATAA TCCTGTAGTC GAAAATGTTG TCTCTCTTGA GTGGATCCTG AGTACGACGG	60
25 ·	AGCACGTGAA ATTCCGTCGG AATCTGGGAG GACCATCTCC TAAGGCTAAA TACTCTCTAG	120
	TGACCGATAG TGAACCAGTA CCGTGAGGAG AAGGTGAAAA GCACCCCGGA AGGTAGNTGA	180
	AATAGAACCT GAAACCGTGT GCTTACAAGT AGTCAGAGCC CGTTAATGGG TGATGGCGTG	240
30 .	CCTTTTGTAG AATGAACCGG CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA	300
	GCCGTAGCNG AAGNANGTTC TGAATAGGGC GTTTAGTATT TGGTCGTAGC CGATAACCAG	360
	GTGATTCTAC CCTTTGGTCA GGTTGAAGTT CAAGTAACAT	400
3 5	(2) INFORMATION FOR SEQ ID NO: 3933:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3933:	
45	GCGATGGTTG AAACATTGAC TTATATTAAA GAGTTTATGA ACCAAGTTGA GTCGCATAGC	. 60
	TAGTATGAAA CGTGGTGTGC GCATGGGAAC TATCAAGCTT TGAAGATGTG GTACTACATG	120
50	CGTTGAATTA GGGATCGGTA CTTTATATGA AGACGTGCTG CTTCCATTAA ATGAGTGATG	180
	CGATTTTGGC ATGAAGGTCA CCTTAAATGT ACATTGTTGT AATAAAATTG CCTATAAATT	240
		_

	AATTGTAAAA AGAAAACCAT ACGCTATGTG nTGCCAAGGA AAAGGTTCTA CCATTGTCAC	360
	naaaaatgca tctctacgtg ctaggaataa atattgggtc	400
5	(2) INFORMATION FOR SEQ ID NO: 3934:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3934:	
15	TTTGACGTTT TAGACATAAA AAAAGAGACC TTGCGGTCCA GATGGGGCTC ATCGCATCCA	60
	CTITITGCCT GGCAACGTTC TACTCTAGCG GAARTAATCG AACTACCATC GACGCTAAGG	120
. 20	AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA GTCACCAGAC	180
20	ATATGAATGT AAATTATACA TTCAAAACTA GATAGTAAGT AAAAGTGATT TTGCTTCGCA	240
	AACATTTATT TTGATTAAGT CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT	300
25	GGCTTCCACC TCGAACCTAT TAACCTCATC ATCTTTGANG GATCTTATAA CCGAATTGGG	-360
	AANCTCATCT GAAGGGGGCT CAGCTAGATG CTTCANACTT	400
	(2) INFORMATION FOR SEO ID NO: 3935:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 393 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3935:	
	TGTTCTTTTT GGGCAGTGGG ACACAAATGG ATATTTTCGG CAAAATTTAT TTCGTTCGnT	60
40	CCCACCCAA CTTGGCACAC TATTGTAAGC TGACTTTTCG CCAGCTTCTG TGTTGGGGCC	120
		180
	CCGCCAACTT GCCATTGTCT GTAGAAATTG AGGAGCTAAT TTCTCTGTGT CGGGGCTCCA	
45	CCCCAACTTG CACACTATTG TAAGCTGACT TTCCGCCAGC CTCTGTGTTG GGGCCCCGCC	240
	AACTTGCACA CTATTGTAAG CTGACTTTCC ACCAGCCTCT GTGTTGGGCC CCGACTATTT	
50	TTGAAAAGAG CGTGTTACAC GGGCATTGTT TTACAGTCAA CTACTGCTAA AATAAAATTA	360.
50	ACGAGCTTAA GGCTTTGGnT TCTGTCCCAA GCC	393
	(2) INFORMATION FOR SEQ ID NO: 3936:	

--

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
		:
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3936:	•
10	AAAAAGAAGA CAACCAAGCC CAATAATGGA CTGGCCGCGT AATAATnGTG GCTCTAAAAG	6
	TTGTATTTTA AAAATAGTTC TTTAAATTAT ATACCCACCA CATTTGGTGG AGAACCTAAA	12
	AAAAAGCACT TCCCAAAAAT GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT	18
15	GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC	24
	TAGCTGGATT CGAACCAACG AGTGACGGAn TCAAAAGTCC GTTGCCTTAC CGCTTGGCTA	30
	TAGCCCAATA TATAGATGGT GGAAGGGGGC AGATCGAACT GCCGAACCCG AGGAGCGGAT	36
20	TTACAGTCCG CCGCGTTTAG CACTTCGCTA CCCTCCAGCT	40
	(2) INFORMATION FOR SEQ ID NO: 3937:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 609 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3937:	
	GGTTTAACAC GCCTGCCTGT CACGCAGGAG ATCGCGGGTT CGATTCCCTG TCGAGACCGC	6
35	CATTATTATT ACCATTACGG TTCAGTAGCT CAGTTGGTAG AGCAATGGAT TGAAGCTCCA	. 12
	TGTGTCGGCA GTTCGACTCT GTCCTGAACC ATTCTTAATT CATGGCGGTT GTGGTGAAGT $_{\scriptscriptstyle{C}}$	18
40	GGTTAACACA TCGGATTGTG GTTCCGACAT TCGAGGGTTC GATCCCCTTC AGCCGCCCCA	24
	TAATCGTTTA CATTAGCGGG TGTAGTTTAA TGGCAAAACC TCAGCCTTCC AAGCTGATGT	30
	TGTGGGTTCG ATTCCCATCA CCCGCTCCAT TATTTCTAT TATTCCACAG TAGCTCAGTG	36
45	GTAGAGCTAT CGGCTGTTAA CCGATCGGTC GTAGGTTCGA GTCCTACCTG TGGAGCCATG	42
	GCTCYTTGGt CAAGCGGTTA AGACACCGCC CTTTCACGGC GGTAACACGG GTTCGAGTCC	48
•	CGTAGAGTYC ATACAAGCAG AAGTGNAAAT ATCGCTTCTG TTTTTTTATT ACATAWTTAA	54
50	TKGTTGGAGG AAGLTGTCCG AGCYGGGCCG AAGGAGCACG CCTGGAAATG TGTAAGCGTT	60
	CACAAGCTT	60:
	(2) INFORMATION FOR SEQ ID NO: 3938:	•

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3938:	
10	TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT	60
	AGTAATCGTA GTCAGCATGC TACGGTGAAT ACGTTCCCGG GTCTTGTACA CACCGCCCGT	120
	CACACCACGA GAGTTTGTAA CACCCGAAGC CGGTGGAGTA ACCTTTTAGG AGCTAGCCGT	180
15	CGAAGTGGGA CAAATGATTG GGGTGAAGTC GTAACAAGGT AGCCGTATCG GAAGGTGCGG	240
	CTGGATCACC TCCTTTCTAA GGATATATTC GGAACATCTT CTTCAGAAGA GCGGAATAAC	300
20	GTGACATATT GTATTCAGTT TTGAATGTTT GTTCATTCAA ATTAATGGGC CTATAGCTCA	360
	GNGGTTANAG CGCACCCTGA TNAACGTGAA GTCGGTGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3939:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3939:	
	AGTTTTGAAT GTATAAATTA CATTCATATG TCTGGTGACT ATAGCAAGGA GGTCCACCTG	60
3 5	TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
	CGCTAGAGTA GAACGTTGCC AGGCATAATA TTAATCCACA GTAGCTCAGT GGTAGAGCTA	180
40	TCGGCTGTTA ACCGATCGGT CGTAGGTTCG AGTCCTACCT GTGGAGCCAT GGCTCTTGGT	240
	CAAGCGGTTA AGGACACCGC CCTTTCACGG CGGTAACACG GGTTCGAGTC CCGTAGAGTT	300
	CATTATTTTG GAGAATTAGC TCAGTAGGGA GAGCATCTGC CTTACAAGCA GAGGGTCGGC	360
45	GGTTTCGAAC CCTnCATTTT CCACCATTTG GTTATTAAAn	400
	(2) INFORMATION FOR SEQ ID NO: 3940:	•
5 <i>0</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	\cdot	

	ACACAACAGC TGTTTCAAAA ATGATTGGTA CAACTGCTGG TTATGTTGGT TATGATGACA	60
	ATTCAAATAC GTTAACTGAA AAAGTACGCC GTAATCCATA CTCAGTCATT CTATTTGATG	120
5	AAATCGAAAA AGCAAATCCA CAAATTTTAA CATTGTTATT ACAAGTAATG GATGATGGTA	180
	ATTTGACTGA TGGTCAAGGT AATGTCATCA ACTITAAAAA TACAATTATT ATTTGTACAT	240
10	CAAATGCTGG CTTTGGCAAT GGCAATGACG CTGAAGAAAA AGATATTATG CACGAAATGA	300
70	AAAAATTCTT CCGCCCTGAA TTCCTTAACC GCTTCAACGG CATCGTGAAT TnCTTACATT	360
	TAGATAAGGT GCCnTGCAGG TATCGTCCAA CTATTATTAG	400
15	(2) INFORMATION FOR SEQ ID NO: 3941:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3941:	
25	ATACAATTT AAATCTGTAT GTGTGAATCC AACACATGTT AAATATGCAG CAGAGCGnCT	60
	AGCTGATTCA GAGGTGCTCG TTTGTACGGT AATAGGATTC CCATTAGGTG CGTCGACAAC	120
30	TGCAACGAAA GCATTTGAAA CAGAAGATGC AATTCAAAAT GGTGCAGATG AAATTGACAT	180
	GGTCATCAAC ATCGGCGCAT TAAAAGATGG ACGTTTTGAT GATGTACAAC AAGACATTGA	240
	AGCAGTGGTT AAAGCTGCGA AAGGTCACAC AGTAAAAGTG ATTATTGAGA CGGTATTGTT	300
35	GGACCATGAC GAAATTGTAA AAGCGAGTGA TTAACAAAAG CGGCTGGTGC GGACTTCGTT	360
•	AAAAACTTCA GCAGGTTTTG CCAGTGGCnG TGCGACTGCA	400
	(2) INFORMATION FOR SEQ ID NO: 3942:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3942:	
50	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	60
	TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC	120
	CATTTTTATA AGTCAAACGT TAACATGAAG TTACGTTCTT TTATAAAAAG ATTTAAACGC	180

•	TATITAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTNAT	300
5.	CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA TCCGAACCCG CTGACCCAAC	360
	CDGCGTGCAA AGCAGGCGCT CTACCCAGCT TGAGCTAAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3943:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3943:	
	CGCTACACTA CGAGACCATT AGTAAAACGG AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	60
20	TTAAGCCCCT GTCGGTTTTC AAGACCGATC CCTTCAGCCG GACTTGGGTA TTCCTCCAAA	120
	ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG GTTATGGAGC CGTTAGCTCT	180
25	GAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TGGCGGTGGA	240
	GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC	300
	CGCCTTATAT AGTTTGTAAA TNANNATGGT GGGAGACTAG CGGGGTTCGA ACCGCTGGAC	360
30	CTCCTGCGTG CCAAAGCAGG CGGCTTCTAC CCAGCTGGAG	400
	(2) INFORMATION FOR SEQ ID NO: 3944:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 406 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3944:	
•	CCAAAATTGC ACCTTGTCGT TTATTCGGAA AATCAATATn GnTAGGGGGT ATAAGATGCA	60
45	CCTACTTTAA CTGTCGCCAA CATCGCCGCA ATCATTTCAA AACTACGTTC TGTAAACAAG	120
	GCAACCCGTT GACCATTGCC CACACCATTT GATAGGAGCA TGTGCGCAAT GGCATCCACA	180
	TAGTTGCGTA ATGTTTCATA CGTCATTGTC AAATCATTCA TGACTAGCGC AACATGATTA	240
50	CCTTGTCGTG AGAAACTTCA TTAAAGTAAC TTATGATAGA TTTATTTCCC GGGACATTAA	300
	GCATTCGATC GTTAACATGC GTATTGACCC AATTTAGAAG TTCCTCCGTG CCGTTTGGTA	360
	TATCACAAAT TTGTAGTGTA WCLTGaTGCT TCmAAATALC AATCAn	406
EE		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3945:	
	CAATGACAAC AGCAACTGAG ACAGTGTCAA ACGCTTAATA ATAATGATGT AGTGTCGAAT	60
	AATACCGCAT TAAATGTACC AACTAAAACA AATGAAAATG GTTCAGGAGG ACATCTAACT	120
15	TTAAAGGAAA TTCAAGAAGA TGTTCGTCAT TCTTCAAATA AACCAGAGCT AGTTGCAATT	180
	GCTGGAACCA GCATCTGAAT AGACCGAAAA AGAGAAGTTA GACGTGCGGC ACCGGCAGAT	240
	CCTGAATGCC AACTCCAGCA GATCCAGCGG CTGCAGCGGT TAGGAAACGG TGGTGCACCA	. 300
20	GTTGCAATTA CAGCGCCATA TACGCCAACA ACTGATCCTA ATGCCATGAn GCCAGGACAA	360
:	ATGGCACCTA ACGANGCITG TICATITGAT GGACANGGIA	400
25	(2) INFORMATION FOR SEQ ID NO: 3946:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3946:	
35	CTCGCTGCGA TAAAGTACCA GTTCATAGCA ACGTTTGTnT TAATAGGnTC TGAAACGATA	60
	CGTGTTGCCG GTTCTGTAAA TGAATAGACC AAAGCATCTT GCATACCAAC AACTATATTT	120
	GCTGCAAATC CTCCAACAGC GGAANATATG CCATCGTTAG TCCAGCGATA GGGTGATAGC	180
40	CAATTTAAT AAAAAGCATT GCTGCAACGG CCGGCAAGAT AATTGTCGCA GCATCGCCGG	240
	CTGTACTACC TAAAATACCA ATTAATATAA TAGTCGGTAA AATTAAGAAA CGTGGTGCGC	300
	GATTCACAAC AGAAATCATT AACTTATCGA AGTATCCTGT TTTCTCTGCA ACACCAATAC	360
45	CAATCATCAC TGCTAGGTAC TAAGCCTAAT GCTGGGNACT	400
	(2) INFORMATION FOR SEQ ID NO: 3947:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3947:	
	GCCGGCCAGA GGACTTGGAA CCCCCAACCT ACTGATTACA AGTCAGTTGC TCTACCAATT	6
5	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	12
•	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	18
10	GGCAACGTTC TACTCTAGCG GAANTAATTC GNACTACCAT CGACGCTAAG GAGCTTAACT	24
,,	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	30
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCnTTCG CAAAACATTT	36
15	A	36
	(2) INFORMATION FOR SEQ ID NO: 3948:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
,		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3948:	
	TTCCGTCAGA CCCTGACATG GTTCATGGGT TCATATTGCA TAGGACCGAA ATCTTCAAAC	60
30	ACTACGTGCT TTGGGCAGAC TTCGCAAAAA TACGGCCTCA ACAAAGGAAT TAAGCCTCGC	120
	ATAAAGCGGA TTTCGAGTAC AGGGAACCGC TACCTCCCCA CCTAGCACGG CAAGATATAT	180
	ATTACTATAT TTTAATAGTT AATTGCAAGT ATAAATCATT TATATCATTG TTTACTTTAT	240
<i>35</i>	ACGACGTCTT GAGAAGTCAT TAATTTAAAT TCATTTGCAA GATGTTTTGA AATATTATAT	300
	TGAAACGGCA TTGTATTTTC TAAATACACA nTACTTCGAA CTGTTGCnGA ATAGGCCACC	360
	GATACATCAC CAACAATTGG NA	382
40	(2) INFORMATION FOR SEQ ID NO: 3949:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3949:	•
	GCCAAGCCAT TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAGA	60
	GACCTTGCGG TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGCAAC GTTCTACTCT	120

	TTGCTTCTTT CCTCTTCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG	24
	CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG	300
5	TTTGCTTTTT AnTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGn CTCAATGnGG	360
	GCTCATCGCA TCCAATTTT GGCCTGGCAA CGGTTCTACT	. 400
	(2) INFORMATION FOR SEQ ID NO: 3950:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3950:	
20	ACTCGGTTTT GCTTGGAAAA TCTATATTTA CTTACTTATC TAGTTTTCAA TGTACAATTT	60
	CTTTTTAGTC AAGCGCTCGC ATACTGCTTT ATTTTCATAA GCAATATCAC TTTAACCAAA	120
	AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA ATATGTCACG TTATTCCGCA	180
25	TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG CCGCACCTTC	240
	CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC GACGGCTAGC	300
30	TCCTAAAAGG nTACnCCACC GGCTTCGGGT GTTACAAACT CTCGTGGTGT GACGGGCGGT	360
	GTGTACAAGA CCCGGGAACG NATTCACCG	389
	(2) INFORMATION FOR SEQ ID NO: 3951:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3951:	•
	AAAGCTCGAC TTGTTTACGA TGTTGAAAAA CAAGATTATG TACCTGTATC GCAACCACAA	. 60
45	TTACCAATTT TAAATGAATT TAATAAAGAC TTAGTGCATA ACCTTGATAC CATATTCAAT	120
	GCGCAAGACG AMCGGGACTA TTTTTATGGG AGACATTACG TAATAATTTC TATTACTCTG	180
50	CTATCAATGT ACCTAAAGCT ACCGATGATT TCCGAGACAT AGACCGTGCG CTTGTCTGGG	240
	GGTTCAACTG GAAACTTGGT CCATTCCAAT TATGGGATGC AATGGGATAC GAACGTGTTA	300
	AAACANTGAT GGGAAGACGA ACTTGGGAGA CTTACCACAA TGGGATTAGT GANTTAGATG	360

(2) INFORMATION FOR SEQ ID NO: 3952:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3952:	
	CAAAGGGCAG CGAAACCGCG AGTCCAGAGC AAATCCCATA AAGTTGTTCT CAGTTCGGAT	60
15	TGTAGTCTGC AACTCGACTA CATGAAGCTG GAATCGCTAG TAATCGTAGA TCAGCATGCT	120
	ACGGTGAATA CGTTCCCGGG TCTTGTACAC ACCGCCCGTC ACACCACGAG AGTTTGTAAC	180
	ACCCGAAGCC GGTGGAGTAA CCTTTTAGGA GCTAGCCGTC GAAGTGGGAC AAATGATTGG	240
20	GGTGAAGTCG TAACAAGGTA GCCGTATCGG AAGGTGCGGC TGGGATCACC TCCTTTCTGA	300
	AGGATATATT CGGGAACATC TTCTTCAGAA GAGCGGGAAT AACGTGACAT ATTGTATTCA	360
	GRTTTGGAAT GTTTRRTTAA CATTRCAAAA AAATGGGGCC	400
25	(2) INFORMATION FOR SEQ ID NO: 3953:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3953:	•
	TGATTTTGAC GTTTTAGACA TAAAAAAAA AGACCTTGCG GTCTCAAATG CGGCTCATCG	60
	CATCCATTTT TTGCCTGGCA ACGTTCTACT CTAGCGGAAC GTAATTGGCT ACCATCGACG	120
40	CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTTCTT CGGCTCTCGC	180
	TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG	240
	TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTGCTTTT TATTTTGACG TTTTAGACAT	300
45	AAAAAAAAGA GACCTTGCGG TCTCAATGCG GGCTCATCGC ATCCATTTTT TGCCTGGCAA	360
	CGTTCTACTC nAGCGGGAAG TGAAGnCGGA CTGACCAAGC	400
50	(2) INFORMATION FOR SEQ ID NO: 3954:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
EE		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3954:	
	AAACTACATA ATGAAAATGC CGTTTTAATC GGTAAATTAA ATATGGATGA GTTTGCAATG	6
5	GGTGGTTCAA CAGAAACATC TTATTTCAAA AAAACAGTTA ACCCATTTGA CCATAAAGCA	12
	GTGCCAGGTG GTTCATCAGG TGGATCTGCA GCAGCAGTTG CAGCTGGCTT AGTACCATTT	18
	AGCTTAGGTT CAGACACAGG TGGTTCAATT AGACAACCGG CTGCATATTG TGGCGTTGTC	24
0	GGTATGAAAC CAACATACGG TCGTGTATCT CGATTTGGAT TAGTGCTTTG CATCTTCATA	30
	GACCAAATTG GGCCATGACT CGAATGTAAA GTAATGCCAT CGTATTAGAA GCTATTCTGG	36
5	TGCAGATGNT AATGACTCTA CCAGTGCACC AGTGATGAGG	40
	(2) INFORMATION FOR SEQ ID NO: 3955:	
•	(i) SEQUENCE CHARACTERISTICS:	
0	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		ė
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3955:	
	TCGATTGGCA TTTCTCCGCT ACCCTCAGTT CATCCGCTCA CTTTTCAACG TAATCGGTTC	·6
0	GGTCCTCCAT TCAGTGTTAC CTGAACTTCA ACCTGACCAA GGGTAGATCA CCTGGTTTCG	12
U	GGTCTACGAC AAATACTAAA CGCCCTATTC AGACTCGCTT TCGCTACGGC TCCACATTTA	18
	CTGCTTAACC TTGCATCAAA TCGTAACTCG CCGGTTCATT CTACAAAAGG CACGCCATCA	24
5	CCCATTAACG GGCTCTGACT ACTTGTAAGC ACACGGTTTC AGGTTCTATT TCACTCCCCT	30
	TCCGGGGGTG CTTTCACTT TTCnCTTCAA GGTATGGGTT CACTATCGGT nACTAGAGAG	36
	TAATTAGCTT AGGNGATGGT CCTCCCAGAT TCGGAAGGGA	40
0	(2) INFORMATION FOR SEQ ID NO: 3956:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3956:	
	GCTACGGGCG CATATGTTTT TATTGAAAAT GGTGCCGAGG ACCGGAATCG AACCGGTAGT	60

	ATAAAAATGG AGCAGAAGAC GGGATTCGAA CCCGCGACCC CAACCTTGGC AAGGTTGTAT	180
_	TCTACCGCTG AACTACTTCT GCATATGCGG GTGAAGGGAG TCGAACCCCC ACGCCGTAAG	240
5	CTTAGGATCC TAAGTCTAGT GCGTCTGCCA ATTCCGCCAC ACCCGCAAAT GGTGAGCCAT	300
	AGAGGATTCG AACCTCTGGA CCCTCTGGAT TAAAAGTCAG ATGCTCTACC AACTGGAGCT	360
10	AATGGCTCTT TCCATGGTGC CGGGCCAGAG GACTTTGAAn	400
	(2) INFORMATION FOR SEQ ID NO: 3957:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3957:	
	CAGACATGTG TTATACGGGA AATTGGGCGA ACCGCAACTA TTATACATTG ATTTACACCT	60
	TATACATGAA GTTACTTCTC CTCAAGCATT TGAAGGACTT AGGCTTCAAA ACAGAAAATT	120
25	AAGACGCCCA GATTTAACAT TTGCAACACT CGATCACAAT GTTCCTACTA TTGATATATT	180
	CAATATTAAA GATGAAATTG CAAACAAACA AATCACAACA TTACAAAAAA ACGCCATAGA	240
	TTTTGGGGTG CATATTTTTG ATATGGGTTC TGATGAACAA GGTATTGTTC ACATGGTAGG	300
30	ACCTGAGAÇA GGACTTACAC AGCCTGGCNA GACCATCCGT NTGTGGGTGA CTCTCACACA	360
	GCCACACATG GnGCCTTTT	379
	(2) INFORMATION FOR SEQ ID NO: 3958:	2.2
35 40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3958:	
45	TGTTAAAATA CGGTACATCT AAATTAATGT TAACTGATTT TCAAAAAGAG AATTAAATAA	60
	ATATATTCAA GGTCAGANAC AACGCGTGAT ATTTGAAAAT GGCCATTTTG TCTAATTGAT	120
50	AGTGAATATA ATTAGAGTAA GAGGCTGGGA CATAAATCCC TAAAAAACAG CAGTAAGATA	180
	ATTTTCAATT AGAAAATATC TTACTGCTGT TCTCTATTTA TACAATACTT CGTATTGAAT	240
	GGCTTCGCTT TCCTAGGGTG CCGTCTCAGC CTCGGTCTTC GACTGGCACT GCTCCCTCAG	300

	AATAAGACAT TTGnCCAACT TGACACTACC ATTAAAAACT	400
5	(2) INFORMATION FOR SEQ ID NO: 3959:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3959:	
15	GAGCCGCAGT GGAATGAGGC CCAAGCGACT GTTTATCAAA AACACAGGTC TCTGCTAAAC	60
	CGTAAGGATG TGTTATAGGG GCTGACGGCT GCCCGGTGCT GGAAGGTTAA GAGGAGTGGT	120
20	TAGCTTCTGC GACGTACYGA ATCGAAGCCC CAGTAAACGG CGGCCGTAAC TATAACGGTC	180
	CTAAGGTAGC GAAATTCCTT GTCGGGTAAG TTCCGACCCG CACGAAAGGC GTAACGATTT	. 240
	GGGCACTGTC TCAACGAGAG ACTCGGTGAA AATCATAGTA CCTGTGAAGA TGCAGGTTAC	300
25	CCGCGTACAG GACGGAAAGN CCCCTGGAGC TTTACTGTAG CCTGATATTG AAATNCGGCA	360
	CAGTTTGTAC AGGATAGGTT AGGAGCCTTG GAAACGTGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3960:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960:	
40	TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA	60
	TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG	120
	GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTGAnTnC	180
45	ACTCACCGCA GATTTTAAGT CCTGTGCGTC TGCCAGTTCC GCCACCCCGG CACTATAAAA	240
	ATGGAGCAGA AGACGGGATT CGAACCCGCG ACCCCAACCT TGGCAAGTTG TTATTCTTAC	300
50	CGCTGGAACT ACTTCTGGCA TATGCGGGTT GAAGGGGAGT CGAACCCCCA CGCCGTAGGC	360
	TTAAGATTCC TGAAGTCTAG TGCGTCTGGC CAATTTCCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3961:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3961:	
	TTTTGATACA TAATCTAAAT TTCTCAAAGC GCCAATAACA GAGGACCATC TCCTAAGGCT	60
10	AAATACTCTC TAGTGACCGA TAGTGAACCA GTACCGTGAG GGAAAGGTGA AAAGCACCCC	120
	GGAAGGGAGT GAAATAGAAC CTGAAACCGT GTGCTTACAA GTAGTCAGAG CCCGTTAATG	180
	GGTGATGGCG TGCCTTTTGT AGAATGAACC GGCGAGTTAC GATTTGATGC AAGGTTAAGC	240
15	AGTAAATGTG GAGCCGTAGC GAAAGCGANG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA	300
	GACCGGAAAC CAGGTGATCT ACCCTTGGTC AGGTTGAAGT TCAGGTAACA CTGAATGGAG	360
00	GACCGAACCG ACTTACGTTG AAAAGTGAGC GGATGAACTG	400
20	(2) INFORMATION FOR SEQ ID NO: 3962:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3962:	60
	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTn CGACCCCTTG GTCCCAAACC AAGTGCTCTA CCAAGCTGAG CTACTTCCCG TATANTTAAC GCGCCCGATA GGAGTCGAAC	120
<i>35</i>	CCATAACCTC TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTG	180
	TTTATTGAAA ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA	240
	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATANAAAT GGATCAGAAG	300
40	ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGGTTGT ATTCTACCGC TGAACTACTT	360
	C	361
45	(2) INFORMATION FOR SEQ ID NO: 3963:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3963:

	AAGTGTCTTA TTTTTTTAAA GTATTTCAAA GTAAAATTAC ATGTTAATAC GTAGATTAAT	120
	GGCGAGACTC CTGAGGGAGC AGTGCCAGTC GAAGCCGTAG GCTGAGACGG CACCCTAGGA	.180
5 .	AAGCGAACCA TTCAATACGA AGATnTnATn AAATAGAGAA CAGCAGTAAG ATATTTTCTA	240
	ATTGAAAATT ATCTTACTGC TGTTTTTTAG GGATTTATGT CCCAGCCTCT TACTCTAATT	300
	ATATTCACTA TCAATTAGAC AAAATGGCCA TTTTCAAATA TCACGCGTTG GTTTCTGACC	360
10	TTGGAATATA TTTAT	375
	(2) INFORMATION FOR SEQ ID NO: 3964:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3964:	
•	AAAATGGCCT TGATAGACTT GCTCAATGCA GGGTTGCCAC AAACCAATGA TGCACTTACA	60
25	ATTTAAATA GATTTTAAG ACCTTGTTGG TTTTGTACAA TTAATGTGAC ATGACTAGGT	120
	CTTGCACGTT TATATGCATC TTCATTACTG AGTTTTTTGT TGATTTCGTT ATGATTTAAT	180
30	ACGCCTAATT CTTTCATTTG TTGAACCATT TTTATGAAAA TGTAAGCTGT TGCTTCTGTA	240
	TCATAAATGG CACGGTGATG TTGCGTTAAT TCTACGCCAT ATTTTTTAGC CAAGAAATTC	300
	AAACCATGTT TACCATATTC AGTATTAATC GTACGAGGAT AATTCTAAAG TATCGATAAC	360
<i>35</i> `	ACCATTCGTT GGATGGTCCA AACCCAAGAC GTTCATATCC	400
	(2) INFORMATION FOR SEQ ID NO: 3965:	i.
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3965:	
	ACTITIAATT TIGICATGAT GIGCCTCCTT ACCGIATGAT GITATICAAA GIAAATIGCT	60
50	TTGCCTGATT TTGCAGACTG ATAAATCGCT TCAAGAATTT TTGTAACTAC CATTGCTTGT	120
	TCCGGTTTCA CAACTGGTTC AGTATCATTT ACAACTGCAT CAATCCAAGC TTTTGCTTCT	180
E E	TCTTCAGCTT CATCCACTTC ATTACCTTCA TAAAAGTCGA CGCCTTTGTT TTCCAATTCA	240

•	TCAGCACCTG CTTTAGGTTC CTGATAATGA ACATTTTGGC CTCATCCACT TCTAAANGAA	360
	TTAATCGCCC AAGNGGGATT CCAAAAAGGA n	391
5	(2) INFORMATION FOR SEQ ID NO: 3966:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3966:	
	CGCTATCAGG TATTGTTTCA ACAATTTCAT TAACATATCG TGAAATATCA TTTTGAGGGA	60
	TTCTAACAGA AGTTTCTATT GGTAGTGTAG TTGGGGGCATG TTATAATTTT TATACATAAG	120
20	GCACCTCGTT AATTTAGTTT AGTGGTATTT ATTAAATTAT AAGAAGGGAC CCAACACAGA	180
	AAATTCATTT TATTGAATTT TACATTTATG TGCAAGTTGG GCAAAGTGTC TTATTTTTTA	240
25	AAAGTATTTC AAAGTAAAAT TACATGTTAA TACGTALATA ATGGCGAGAC TCCTGAGGGA	300
20	GCAGTGCCAG TCGAAGCCAA GGCTGAGACG GCACCCLAGG AAAGCGACDC ATTCAATACG	360
	AAGATTGTAT AAATAGAGAA CAGCAGTAAG ATATTTTC	398
30	(2) INFORMATION FOR SEQ ID NO: 3967:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3967:	
40	GCTATAGAAA AAATAAAATC ACAAGTTACG ATTAGCGTAC TTGATGGGGA GTGAAAATAA	60
	TGAGAGTAAC AGAGTTATTA ACAAAAGATA CAATAGCAAT GGATTTAATG GCAAATGACA	. 120
45	AAAATGGTGT TATTGATGAG TTAGTAAATC AATTAGACAA AGCAGGTAAA TTAAGTGATG	180
	TCGCGTCATT TAAGGAAGCG ATTCACAATC GAGAATCACA AAGTACAACT GGTATCGGCG	240
	AGGTATTGCC ATTCCACATG CCAAAGTGGC CGCAGTTGAA GTCACCAGCT ATTGCGTTTG	300
50	GTAAATCTAA AGCAGGCGTG GATTATCAAn TTTGGNTATG CAACCAGCAC ACTTNTTCTT	360
	TGTGGTTGGC AGCG	374
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 3968:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3968:	
10	ACCCCGGCAC TATAAAAATG GAGCAGAAGA CGGGATTCGA ACCCGCGACC CCAACCTTGG	6
	CAAGGTTGTA TTCTACCGCT GAACTACTTC TGCATATGCG GGTGAAGGGA GTCGAACCCC	120
	CACGCCGTAA nCTGAGGATC CTAAGTCTAG TGCGTCTGCC AATTCCGCCA CACCCGCAAA	180
15	TGGTGAGCCA TAGAGGATTC GAACCTCTGG ACCCTCTGAT TAAAAGTCAG ATGCTCTACC	240
	AACTGAGCTG AATGGCTCTT CCATGGTGCC GGCCAGAGGA CTTGAACCCC CAACCTGACT	300
00	GGATTACAAG TCAGTTGCTC TACCAATTGA GCTAAGGCCG GGCAATATGT AAGAATAAAT	360
.20	GGTGGAGAAT GACGGGTTTC GAANCGCCGA CCCTCTGCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3969:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3969:	
	GCGAGTTGGG GTGTGGGCCC CAACATAGAG AAATTGGATT CCCAATTTCT ACAGACAATG	60
35	CAAGTTGGCG GGGCCCCAAC ACAGAAGCTG ACGAAAAGTC ATTAnCAATA ATGTGCAAGT	120
	TGGCGGGGCC CCAACACAGA AGCTGACGAA AAGTCATTAN CAATAATGTG CAAGTTGGCG	180
40	GGGCCCCAAC ACAGAAGCTG GCGGAAAGTC AGCTTACAAT AATGTGCAAG TTGGGGTGGG	240
	ACAACGATAA AGTAATACTT TTTCTATAGA AATTAGTATT TCTTATGCAT GAGTTTTACT	300
	CATGIATICC TATTITTAAG TACACATTAG CTGTGGCTAA TGTTTAAGAC CCACTACATA	360
45	ATAAATCATT AGTGGCTCTm TATCATTTCT GTCCCACTCC	400
	(2) INFORMATION FOR SEQ ID NO: 3970:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 419 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GATAGATCA GCCGAAAATG GATGGTGTTA AGAGCGTTAC TTGGTTTGGC GGTATGCTTA	60
	TTTTTAATGG CATTGTGTAC GACACCATTA CAGTTTGTAC TTGTGAGGTT ATTGCAGGGA	120
5 .	CTATTTGGTG GTGTTGTTGA TGCATCAAGT GCGTTTGCGA GTGCAGAGGC GCCACTGAKA	180
	GATCGTGGAA AGLATTAGGA GACTGCAAAT TCAGTCAGCG CAGGLCTCTT GTGGGGCCAT	240
10	TAATTGGCGG TGTTACAGCT TCGATATTAG GTTTTAGTGC GTTACTGATG AGTATTGCCG	300
	TTATTACTTT TATTGTCTGT ATTTTCGGTG CATTAAAATg ATTGAAACGA CACATATGCC	360
	AAAATCACAA ACACCAAATA TTAATAAAGG TNTTCGCCGT TCCANTTNCA ATGTCTAAT	419
15	(2) INFORMATION FOR SEQ ID NO: 3971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3971:	
	AAACTTGGGA GACTTCAATA ACAGATTTAG GTTTATCTAA AAATCAGGCA TATAATTTCT	60
	TAATTACATC TAGTCAAAGA TGGGGCCTTA ATCAAGGGAT AAATGCAAAT GGCTGGATGA	120
30	GAACTGACTT GAAAGGTTCA GAGTTTACTT TTACACCAGA AGCGCCAAAA ACAATAACAG	180
	AATTAGAAAA AAAAGTTGAA GAGATTCCAT TCAAGAAAGA ACGTAAATTT AATCCGGATT	240
	TAGCACCAGG GACAGAAAAA GTAACAAGAG AAGGACAAAA AGGTGAGAAG ACAATAACGA	.300
35	CACCAACACT AAAAAATCCA TTAACTGGAG TAATTATTAG TAAAGGTGAA CCnnAAGGAG	360
	GGGTTTCCAn AGTCCGTTAT G	381
40	(2) INFORMATION FOR SEQ ID NO: 3972:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3972:	
50	GGGTTCAGAA CGTCGTGAGA CAGTTCGGTC CCTATCCGTC GTGGGCGTAG GAAATTTGAG	60
	AGGAGCTGTC CTTAGTACGA GAGGACCGGG ATGGACATAC CTCTGGTGTA CCAGTTGTCG	120
55	TGCCAACGGC ATAGCTGGGT AGCTATGTGT GGACGGGATA AGTGCTGAAA GCATCTAAGC	180

	GANGTTAATA GGTTCGAGGT GGAAGCATGG TGACATGTGG AGCTGACGAA TACTAATCGN	300
	TCGANGACTT AATCAAAATA AATGTTTTGC GACCAAATCA CTTTACTTAC TATCTAGTTT	360
5	GAATGATAAA TACATCATAT GCTGGnGCCA TACCAAGGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3973:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973:	
	TCTTTTAATT ACGTAATGGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATATGATT	60
20	TTTTAGATTT TAGTAAGTCA ATAAAGCCAA TTTTCTCCAA CGATTGAATG TAACGTTGAT	120
	TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAGGCAA	180
25	TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCTTGGA	240
	TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATATAGT	300
	TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGnTGG TGCCTGGATT	360
30	ngaaaataaa ccgganccng ggatccacgg gaaataaccc	400
	(2) INFORMATION FOR SEQ ID NO: 3974:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		.,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974:	,
	TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATAATAG	60
45	GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAATAAAT	120
	CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTTAATT	180
	TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAGACCA	240
50	ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGAAACT	300
	TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCTGAAA	360
55	CACTTGGATC ANGGCACTTC TGAATAAATG GTGGTTAACT	400
22		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 base pairs
(B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		٠
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3975:	
	CCTTTGCAGC GCCTCCGTTA CCTTTTAGGA GGCGACCGCC CCAGTCAAAC TGCCCGCCTG	60
	ACACTGTCTC CCACCACGAT AAGNGCGGGN GTTTAGAAAG CCAACACAGC TAGGGTAGTA	120
15	TCCCACCAGC GCCTCCACGT AAGCTAGCGC TCACGTTTCA AAGGCTCCTA CCTATCCTGT	180
	ACAAGCTGTG CCGAATTTCA ATATCAGGCT ACAGTAAAGC TCCACGGGGT CTTTCCGTCC	240
	TGTCGCGGGT AACCTGCATC TTCACAGGTA CTATGATTTC ACCGAGTCTC TCGTTGAGAC	300
20	AGTGCCCAAA TCGTTAACGC CTTTCGTGCG GGTCGGAACT TACCCGACAA GGANTTTCGC	360
	TAACTTAGGA CC	372
25	(2) INFORMATION FOR SEQ ID NO: 3976:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 395 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30 .		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3976:	
35	AGGGAATCGA ATTTTCTTTC TCTTCCTmCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
٠	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
40	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AAATAACTTA	240
	ATCTATGTTT CCACCATTTT TATAAGTCAA ACGCTCACAT ACGGCTTCGT TTTCATTATT	300
45	TTAAAGCTCA TTTACATAAG TAAACTCTGC TTTAAATGAT TTAACTCATT GTCTGCTAAA	360
	ACGGTTTnTT TTATGAAAAG GTTTGAAACG GGTTn	395
	(2) INFORMATION FOR SEQ ID NO: 3977:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

2771

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3977:	
	TTGGTCCCAA ACCAAGTGCT CTACCAAGCT GAGCTACTTC CCGTATAATT AACGCGCCCG	60
5	ATAGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG	120
	GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTnnTTCA	180
. 10	CTCACGCAGA TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT	240
,,	GGAGCAGAAG ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGTTGTT ATTCTACCGC	. 300
	TGAACTACTT CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA GGCTTAGATC	360
15	CTTAAGTCTA AGTGCGTCTG GCCAATTTCC GCCADACCCG	400
	(2) INFORMATION FOR SEQ ID NO: 3978:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3978:	
	AAGTGGTTAA ATATTATAGA AAACATCAAA GGATGTTAAG AAATACAATT TATTACCCAG	60
30	CATTTAATAA TGGTGCTATA GAAGGAATTA ATAATAAGAT AAAATTAATC AAGTGAATTT	120
	CTTTTGGTTA CAGAAATTTC AACAACTTTA AAGCACGTAT AATGATGATT TTCAGCTTGT	180
	ACAAAGGAGA AAAAAAGAAG ACAACCAAGC CCAATAATGG ACTGGCCGCC TAATAATAAA	240
· <i>35</i>	AGCTCTAAAA GTTGTATTTT AAAAATAGTT CTTTAAATTA TATACCCACC ACATTTGGTG	300
	GAGGAACCTA AAAAAAAGCA CTTCCCAAAA ATGGGAAAGT GCAGTNAGTG GAGCCATAGA	360
	GGATTCCGAA CCTCGGACCC TCnGAnT	387
40	(2) INFORMATION FOR SEQ ID NO: 3979:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3979:	
	TGGAGCAGAA GACGGGATTC GAACCCGCGA CCCCAACCTT GGCAAGGTTG TATTCTACCG	60
<i>55</i>	CTGAACTACT TCTGCATATG CGGGTGAAGG GAGTCGAACC CCCACGCCGT AANTTAGCAT	120

	•	
	CGAACCTCTG GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTT	240
	CCATGGTGCC GGCCAGAGGA CTTGAACCCC CAACCTACTG ATTACAAGTT CAGTTGCTCT	300
5	ACCAATTGAG CTAGGCCGGn CAATATGTAA GAATAAATGG TGGAGAATGA CGGGTTTCGA	360
,	ACCGCCGAAC CCTCTGCTTG THAAGGGCAG ATGGCTCHTC	400
	(2) INFORMATION FOR SEQ ID NO: 3980:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3980:	
20	TTACCACGTA TTTAGGTTTC TTTGGTGGCT CTAGATTTGT CCCTATTGTC ACAGCATTTG	60
	CCGCAATCTT TTTAGGTGTA TTGATGTTTT TCATTTGGCC AAGCATACAA GCCGGCATTT	120
	ATCATGTTGG TGGATTTGTA ACGAAAACAG GTGCCATCGG TACTTTTGTT TATGGCTTCA	180
25	TCTTAAGATT GTTAGGTCCA CTCGGTTTAC ACCATATTTT TTACTTACCG TTTTGGCAGA	240
	CGGCACTTGG TGGTACTTTA GAAGTCAAAG GGCACTTAGT TCAAGGTACG CAGAACATCT	300
30	TCTTTGCTCA ACTTGGTGAT CCAGATGTGA CGAMTATTAT TCCAGGTGTG TCACGCTTTA	360
	ngtcagccgt tttaatacga ggatgttcgg ctangtggtg	400
	(2) INFORMATION FOR SEQ ID NO: 3981:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3981:	٠
	CGACATACGC TGATAAATTA GTTATTAAAC GTAATGGTAA CGTTGTGACG ACATTTACAC	60
45	GTCGCAATAA TACGAGTCCA TGGGTGAAAG AAGCATCTGC AGCAACTGTA GCAGGTATTG	120
	CTGGAACTAA TAATGGTATT ACTGTTGCAG CAGGTACTTT CAACCCTGCT GATACAATTC	180
50	AAGTTGTTGC AACGCAAGGG AAGCGGAGAG ACAGTGTAGT GGATGGAGCA ACGTATAGTT	240
	GGATTTCACA GTTGTCGCAC CACAACCGAA CCAAGCGACT GACTGAAGAT TTGGCAAAAT	300
	GGNCATATTG ATATCACGCC TAATGANTCC ATTCAGGACA TTTAATTAAT CCAACTCAAG	360

(2) INFORMATION FOR SEQ ID NO: 3982:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3982:	-
	TTTAGCTGAA GCTTTAACTT ATACAAGTGA ACATCAAATG AACTTTATAG ATCCATTCAA	6
15	TAATGTTCAT ACAATTTCTG GACAAGGTAC GCTTGCTAAA GAAATGCTAG AACAAGCAAA	12
	GTCTGACAAT GTTAACTTTG ATTATCTATT TGCCGCAATT GGTGGTGGCG GTTTAATTTC	18
	AGGTATTAGT ACTTACTTTA AAACCTATTC ACCTACCACG AAAATTATAG GTGTTGAACC	24
20	TTCAGTGCAA GTAGTATGTA TGAATCTGTT GTGGTAAATA ATCAGGTAGT CACATTGCCT	30
•	AATATCGATA AATTTGTGGG ACGGTGCATC TGTAGCTAGA GTTGGCGATA TTACATTGGA	36
25	AATTGCCAAA GAAAAGTAGA GGATTACGTT CCAGTAGAGN	400
25	(2) INFORMATION FOR SEQ ID NO: 3983:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3983:	
	CCACCATTAT TTGTACATTG AAAACTAGAT AAGTAAGTAA AATATAGATT TTACCAAGCA	60
	AAACCGAGTG AATAAAGAGT TTTAAATAAG CTTGAATTCA TAAGAAATAA TCGCTAGTGT	120
40	TCGAAAGACG CGACAAGATT AATAACGCGT TTAAATCTTT TTATAAAAGA AAACGTTTAG	180
	CAGACAATGA GTTAAATTAT TTTAAAGCAG AGTTTACTTA TGTAAATGAG CATTTAAAAT	240
15	AATGAAAACG AGGCCGTATG TGGAGCGTTT GACTTATNAA AAATGGTGGG AAACATAGAT	300
75	TCAAGTTATT GAAGGGCGCA CGGTGGGATG CCTTGGGCAC TAGNAAGCCG nTGGAAGGAC	360
	GTTACTAACG ACGATATGCC TTGGGGGAGC	390
50	(2) INFORMATION FOR SEQ ID NO: 3984:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	•	

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3984:	٠
	GGGCTCTAAC ATATTCTTAA ATTGATCAAA TAGTTCTTGC CTTGTATCTG CAAATGTTTT	60
	GTAGTCTGCA TGCAATGTGA GTGCTTGATG AATTTTGACC ACAAATTCAA ATGTATCAGG	120
10	CGTTTCTTTT ATCCATTTCA ATATATTTCT TTCCGGTTGT ATCGCATAGT ATGTCGCATC	180
	TAATTCGACA ACCGGAAAAT GTCCAGCATA TGTTTTAAGT TTATCGGTTT GGCGTTCTAA	240
	ATCTTCATAT AATGAATAGT GATCACCCCA ACCTGTTAAT CCGATGTTTT ATCATATATA	300
15	TCACCAATGT CATCATACCA TATAACTTTT ATCATNATCA TTTCAGCGAA CTTTAGGTTT	360
	GNAGGTTTTT TGGCCTGGAT TAAANATCTT TCGGGCGGAT	400
	(2) INFORMATION FOR SEQ ID NO: 3985:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3985:	·
30 .	GCATTTGCTT ATATCTTTAA AAAAGATTTT GAAGATATTG AAAGAAAAAC TAAAGAAATT	60
	ATTTCTGATA TTGAAAGTAA AAATAACTAA TAACATTTAG AGGCTGGGAC ATAAATCCCT	120
	AAAAAnCAGC AGTAAGATAA TTTTCAATTA GAAAATATCT TACTGCTGTT CTCTATTTAT	180
<i>35</i>	ACAATACTTC GTATTGAAAT GGCTTCGCTT TCCTAGGGTG CCGTCTCAGC CTTGGTCTTC	240
	GACTGGCACT GCTCCCTCAG GAGTCTCGCC ATTGAATACT ACGTATTAAC ATGThAATTT	300
40	TACTTTGGAA ATACTTTTAA AAAATAAGAC ACTTTGCCCA ACTTGGCACA TAAATGTTAA	360
	AAThCAATGA AATGAATTTT CTGTGTTGGG TCCCCTnCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3986:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3986:	
55	TTCGTTCAAA GTCATCTAGG TCACATTATT CTATTTGGGA TTCTTAGTGC TGTTCTTATT	60

	ATGACAATAC AAAACGTAAA AAAGTCGCAG TGATCGGTAG TATTTTAGTA TTTATCATTA	180
	GTATTCCAGC AACCTTATCT TTTGGTATCT TAAAAGATGT AAGATTCGGT GCGGGAACGA	240
5	TTTTTGATAA TATGGATTTC ATCGTTTCGA ATGTATTGAT GCCATTAGGC GCATTAGGTA	300
	CTACGCTTGT CGTAGGnCAA TTATTAGnTA AAAAATTATT ACAnCAATAT TTTGGTAAAG	360
10	Ancgatttag gattattcag tggttggtat tacttaatta	400
	(2) INFORMATION FOR SEQ ID NO: 3987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(and a growth and a programmer of the same	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3987:	
	GGATTCGAAC CCCCGCGAGC CGTTAAGCCC CTGTCGGTTT TCAAGACCGA TCCCTTCAGC	60
25 [°]	CGGACTTGGG TATTCCTCCA AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA	120
25	CGGTTATGAG CCGTTAGCTC TAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC	180
	TAATAAATAG TGGCGGTGGA GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC	240
30	TCTAGCCAGC TGAGCTACAC CGCCTTATAT AGTTTGTAAA TAATATGGTG GGGACTANCG	300
	GGATCGGAAC CGCTGGACCT CCTGCGTGGC AAAGCAGGCC GCTCTCCCAG CTGGAGCTAA	360
	Gnccccata ataathacag tatatchggg aagacaggat	400
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 3988:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3988:	
	CAGCTGATAA ACAAGTTGAT CTGGTCCCGA TTTGTTGGGT AAACGGTTGA TTAATGNAAA	60
	ATGTTCGCCG AAGGATTCAT AATCCGAGAG GTCTAATTCA ACGTATCATT AATCAAGATG	120
50	CGCCTATTTA TCAATCTGAA ACAAATTATC ATTCGAAAGA TCGCGGTAAG TCTAAAAATG	180
	GTATTCAAAT GGTGTATCAA CATTTAATGA ACGGTGTATC GTTTATGGnT CCTTTTATCG	.240
	TAGTTGGTGG ACTCCTTATC GCCATCGCGC TGACTCCTAG GCGGTGAACG ACCATCCAAA	300

	CCTTTAAATT AATGGTCCCA TACCAGnCGG GATAAACGCT	400
	(2) INFORMATION FOR SEQ ID NO: 3989:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
		• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3989:	
15	CCAGAGATTT CCGAATGGGG GAAACCCAGC CATGAGTTAT GTCATGTTAT CGATATGTGA	60
	ATACATAGCA TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC CCGGAGAAGA	120
	GAAAGAAAAT TCGATTCCCT TAGTAGCGGC GAGCAAACGG GAAGAGCCCA AACCAACAAG	180
20	CTTGCTTnGn GGTnTGTAGG ACACTCTATA CGGATTACAA AGGACGACAT TAGACGAATC	240
	ATCTGGAAAG ATGAATCAAA GAAGGTAATA ATCCTGTAGT CGAAAATGTT GTCTCTTTG	300
25	AGTGGATCCT GAGTACGACG GAGCACGTGG AAATTCCGTC GGAATCTGGG AGGACCATCT	360
. •	CCT	363
	(2) INFORMATION FOR SEQ ID NO: 3990:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3990:	
	TTTCCAAGAA CATGAGCCTG TACAGTTAAC ACCATGTnTG nTTCTTACTT CTTTATCGTG	60
40	GCTCCAACGT TCTCTGTACA TTTTTCCCA TTCTCTACTT TTACTTTCTA GGATCGACCA	120
	ATTCCCATTA AATTTTCTG TTGGCTTAAA GAAATTCAAT CCAAATTTTC CCATATTTAT	180
45	ATCCTCCTAC GTATAAAAAT ACGATGTGTA GATGTCGTGT TTTTAAATAC TTTAAAATGC	240
	CCAAGACTAT TGCTTTAATT AGATTGTACA TTTTTTCACA AACATAAAAT ATTAGGGAAT	300
	CACCTAATTA CTTAAGGNAT TCCCTATCAA TAACGGGATT TCATTGAAAT AATACACAAT	360
50	CAGTANGGTC AGCCTAATGC CAGGCTAAAT CGTTCAAATT	400
	(2) INFORMATION FOR SEQ ID NO: 3991:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3991:	
	AAAGTGGTTA AATATTATAG AAAACATCAA AGGATGTTAA GAAATACAAT TTATTACCCA	60
10	GCATTTAATA ATGGTGCTAT AGAAGGAATT AATAATAAGA TAAAATTAAT CAAGTGAATT	120
	TCTTTTGGTT ACAGAATTT CAACAACTTT AAAGCANGTA TAATGATGAT TTTCAGCTTG	180
	TACAAAGGAG AAAAAAGAA GACAACCAAG CCCAATAATG GACTGGCCGC CTAATAATnn	240
15	GAGCTCTAAA AGTTGTATTT TAAAAATAGT TCTTTAAATT ATATACCCAC CACATTTGGT	300
	GGAGAACCTA AAAAAAGCA CTTCCCAAAA ATGGAAAGTG CAAGTAGTGA GCCATAGAGG	360
•	ATTCGAACCT CTGACCCTCT GATTAAAAGT CAGATGCTCT	400
20	(2) INFORMATION FOR SEQ ID NO: 3992:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3992:	
•	AGTGTATGGT TATCAAAGAT TTGATACGAC GGTCATTATT ATTACCGTTA TTGTATTAGT	60
	CATTATTGTC CAAGTGATTC AAACGCTAGG GAATGTTCTA GCTAGATTCA TACGTHGACA	120
35	TTAATGATAT ATAGTGAAGA TTTTGAAAGG AATTGATAGA ATGAAAAGAT TGATTGGGTT	180
	AGTTATCGTA GCACTTGTAT TAATTAGCAG CGTGTGGTGG TAACAATGAT AAAAAAGTAA	240
	CAATTGGTGT CGCATCAAAT GACACTAAGG CTTGGGGAGA AGGTTAAAAG AATTAGCTAA	300
40	AAAAAGATGG ATmTTGATGT GGGAGATTAA GCACTTCCTC mGGATTACAA TTTACCGGAT	360
	TAAAGCCTTn AAATGGATGG TGATATTGAT AATGAATGCC	400
45	(2) INFORMATION FOR SEQ ID NO: 3993:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2778

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3993:

· 55

•	TTATCAGAAG AACAATTCGA CATTTTACTG AATCATCCAT TAATCGATGA AGAAGTAGCC	120
5	AATAGTTTAA TTGAAAATGT CATCGCGCAA GGnGCATTAC CCGTTGGATT ATTACCGAAT	180
3	ATCATTGTGG ACGATAAGGC ATATGTTGTA CCTATGATGG TGGAAGAGCC TTCAGTTGTC	240
	GCTGCAGCTA GTTATGGTGC AAAGCTAGTG AATCAGACTG GCGGATTTAA AACGGTATCT	300
10	TCTGAACGTA TTATGATAGG TCAAATCGTC TTTGATGGCG TTGACGATAC TGAAAAnTnT	360
	CCGCCGGCAT TGAGAGCCTT AGA	383
	(2) INFORMATION FOR SEQ ID NO: 3994:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3994:	
25	GGTACTATGA TTTCACCGAG TCTCTCGTTG AGACAGTGCC CAAATCGTTA CGCCTTTCGT	60
20	GCGGGTCGGA ACTTACCCGA CAAGGAATTT CGCTACCTTA GGACCGTTAT AGTTACGGCC	120
	GCCTTTACTG GGGCTTCGAT TCGTAGCTTC GCAGnnAAAC CNACTCCTCT TAACCTTCCA	180
30	GCACCGGGCA GGCGTCACCC TGATACATCA CCTTACGGTT TAGCAGAGAC CTGTGTTTTT	240
	GATAAACAGT CGCTTGGGCC TATTCACTGC GGCTCTTCTG GGCGTTAACC CTGAAAGAGC	300
	ACCCCTTCTC CCGAATTACG GGGTCATTTG CCGATTCCTT AACGAGATTC GCTCGCTCAC	360
35	CTTAGA	366
	(2) INFORMATION FOR SEQ ID NO: 3995:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3995:	
	AGATATTTTA CATGTGAATC AAGTAGGTAT TCATGATAAT TTCTTTGAAT TAGGTGGCCA	60
50	TTCATTAAAA GCAACGTTAT GnTGAATCGG ATAGAGGCAT CTACTGGGAA ACGATTACAA	120
	ATTGGTGATT TATTACAAAA GCCAACTGTA TTTGAACTAG CACAAGCGAT TGCTAAGGTT	180
	CAAGAACAAA ACTATGAAGT GATTCCAGAA ACTATAGTTA AAGATGATTA TGTGCTGAGC	240

	GTACCTTTTT TATGGCGGTT ATHCATCAGA ACTTAATGTA GCTCAHTGCG ACAAGCATG	359
	(2) INFORMATION FOR SEQ ID NO: 3996:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(a) Totoboot. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3996:	
•		
15	CAATTATTGG TATTCAACTT AAAGATCATG ATGATTTAAT ACAACTCAAA CAACGTTMAA	60
	ATCATTTCGA TCCTTCCAAT ATTTATATTA ATGAAAATAA GATGTTATAT TCATTGTTAA	120
	TTTAACACAT AGTAAGAAAA ACAGTCATAA ATTGATTTCT AATTGAAATC ATCTTATGAC	180
20	TGCTTTTAT TATACTTTAC ATTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA	240
•	AGCCATCTTT CTTTGTGTTT GCTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTT	300
	GCGGTCTCAA ATGCGGCTCA TCGCATCCAC TTTTTGCCTG GGCAACGTTC TACTCTAGGC	360
25	GGAANGTAAG TGGGACTTAC CATCGACGGN TAAGGGGCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3997:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3997:	
	GATACTACCC TAGCTGTGTT GGCTTTCTAA CCCGCACCAC TTATCGTGGT GGGAGACAGT	60
40	GTCANGCGGG CAGTTTGACT GGGGCGGTCG CTCCTAAAAG GTAACGGAGG CGCTCAAAGG	120
	TTCCCTCAGA TGGTTGGAAA TCATTCATAG AGTGTAAAGG CATAAGGGAG CTTGACTGCG	180
	AGACCTACAA GTCGAGCAGG GTCGAAAnCG GACTTAGTGA TCCGGTGGTT CCGCATTGAA	. 240
45	GGGCCATCGC TCAACGGATA AAAGCTACCC CGGGGATAAC AGGCTTATCT CCCCCAAGAG	300
	TTCACACGAC GGGGAGGTTT GGCACCTCGA TGTCGnCTCA TCGCATCCTG GGGCTGTA	358
	(2) INFORMATION FOR SEQ ID NO: 3998:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i></i>	(C) Distribution Compa	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3998:	
5	TAGGAGGAAT TTATATGACA TTTGAAAAAG AAACGGTCTT AAAAACATTA TTTCCTGAAG	6
	ATGTACTTAG TATTGCTAAA GGTTTAACAG ACGGTGAAGT CGAATTTTTA CAACAAGTAG	120
	ATTCATTGCT AGAAAGTAAG TACCGTGAAA ATATTAATCA ACATTGGATA GACGCTACTG	180
10	TACCCGAGGA CTATTITAAA GATCTGGGAG AFTTAAATTA TTTTAACAFT CCATTACTTT	240
	ACAAGGATCG TCCAAACGCC AAAATGCCTA GTCAnCTATT TCAGTTTTTC ATGTCTTACC	. 300
15	TACTCGCGCG ATTTGATATT TCCTTAGCTA CCCTACTCGG TGTTCACCAA GGTTAGGGCA	360
3	TAACACTTTC TATTTCGGAG GTAGCAAAGA CAAATTGCGA	400
	(2) INFORMATION FOR SEQ ID NO: 3999:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
?5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3999:	lan ,
	CGCCCCTTAG TGCTGCACTA ACGCATTAAG CACTCCGSCT GGGGAGTACG ACCGCAAGTG	60
30	AAACTCAAAG GAATTGACGG GGACCCGCAC AAGNGTGGAG CATGTGGTTT AATTCGAGGC	120
	AACGGLAGAA CCTTACCAAA TCTTGACATC CTTTGACAAC TCTAGAGATA GAGCTTTCCC	180
15	CTTCGGGGAC CAAAGTGACA GGTGGTGCAT GGTTGTCGTC AGCTCGTGTC GTGAGATGTT	240
-	GGGTTAAGTC CCGCAACGAG CGCAACCCTT AAGCTTAGTT GCCATCATTA AGTTGGGCAC	300
	TCTAAGTTGA CTGCCGGTGA CAAACCCAGG AAGGTTGGGG ATGACGTCAA ATCATCATGC	360
10	CCCTTATGGn TTTGGGTTAC ACAAGTGGTT ACAATGGG	398
	(2) INFORMATION FOR SEQ ID NO: 4000:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
υ,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4000:	
	TGTTCTTGCA ACGCTATTTA GTATCAGGTT TAACAACAG TGCGACAAAA CCTTACTTTC	60

	GACGTTATGA TGACGATTAA AGTTGGAATC ATTGGGTGTG GTGGTATTGC GAATGGCAAG	180
	CACATGCCAA GTTTACAAAA AGTTGAAAAT GTTGAAATGA TCGCATTTTG TGACGTAGAC	240
5	ATTTCGAAAG CAGCGAGTGC GGCAGAAGCA TACGGAACTG ACAATGSCAA AGETTATGAT	300
	GATTACMAAG CATTGTTAAA AGATGACACG ATTGATGTTA TCCATGTTTT GTACCCCCAA	360
10	TGGACCCCGC ATTGTGG	377
10	(2) INFORMATION FOR SEQ ID NO: 4001:	
15 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4001:	
	TCGGGTTCTC AAATCATCGA ACATAACAAA AGAAGCTAAG CAACATGTAG GCCGTTGTCA	60
	CTTAACTTCT TGTTTTTCCG ATGACAGCTT CTATTTAGAG AATGTCATGA TTATTTTATA	120
25	TTCACTTCAA TGTTATCAAT ATTAGTGCCA TCTATGACAT CTGCCATGCG ATTTTCTTGT	180
	AATTTTTGT GCAATTCAAA CGTGTACTTT CCACCGTTTT TCATTTTAAT AACAATTTTA	240
	CCTGAACCAA CGTTACCGTA CAGATTATTT TTTTCAATAA GTGTTTTCTC AATTTAAAAT	300
30	CAAGTTCTTT CAAGGAAATC TGTTCTTTAG TAATCTTGAA TTCTGAAACA TCATGGGnGA	360
	TTGTACCGTA TNATCTTNCC TAGTAAT	387
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4002:	
40 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4002:	
45	CTATTACGAT TGCTGCGAAA GAAGGTATTA AAAATATACA AATAGGCATG GCTCACCGTG	60
	GACGTTTAAA CGTTTTAACG CATGTCTTAG AAAAACCGTA CGAAATGATG ATTTCAGAAT	120
50	TTATGCATAC AGATCCAATG AAATTCTTAC CTGAAGATGG TAGCTTGCAG TTAACTGCTG	180
	GATGGACTGG TGATGTGAAA TATCACTTGG TGGGCATTAA AACTACTGAT TCATACGGTA	240
	CAATGCAGCG TATTGCACTG GCTAACAATC CAAGTCACTT GGAAATTGTT GCACCTGTTG	300

2782

· 55

	TCCATCATAA AngCAATGnC CATTGTTGAT ACATGGCGAT	400
	(2) INFORMATION FOR SEQ ID NO: 4003:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4003:	
	AGAAATATAT GCATTTCGGA TATCATGGTA AAGAGAATGG ATTAAGCGGT AAATCACGTG	60
15	ATGAAGTGCG AGCGAAATGA AACAAAATTT AGATGTCATG CGAGACGATA ATCAAAGGGA	120
	CGACAGGTGA TGGGGTTGAA AGTGTAACGN GCTACACTGG TCATGATGCT GCTAAACTAC	180
20	GTGATTATAA TGAAACACAT CATGCTTTGT CTGGATATGA AATGATTGAC GCAGCAAAGG	240
	TGCCATTGCA ACAAATGAAG TCAATGCTGC GATGGGTATT ATTTGTGCAC GCCAACAGCT	300
	GGTTCCTCGG GTACCATTCC CGGTGCACTT TTTAAATTAG GAAAAAACAC ATGATTTAAC	360
25	AGAAGAGCAA ATGATTTGAT TTCTTATTCA CTTCAGCATT	400
	(2) INFORMATION FOR SEQ ID NO: 4004:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4004:	
	TGAAATAGAA CCTGAAACCG TGTGCTTACA AGTAGTCAGA GCCCGTTAAT GGGTGATGGC	60
40	GTGCCTTTTG TAGAATGAAC CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT	120
	GGAGCCGTAG CGAAAGCGAG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA GACCGAAACC	180
	AGGTGATCTA CCCTTGGTCA GGTTGAAGTT CAGGTAACAC TGAATGGAGG ACCGAACCGA	240
45	CTTACGTTGA AAAAGTGAGC GGATGAACTG AGGGTAGCGG AGAAATTCCA ATCGACCTGG	300
	AGGATANTGG TTCTCTCCGA ATAGTTTAGG GCTAGCCTCA AGTGTGATTA TTGAGGTAGA	360
	nactgtttga cgagggccc tctcgggtac cgaattcagg	400
50	(2) INFORMATION FOR SEQ ID NO: 4005:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4005:	
	ATACTAAGGC GTTATTAGAC GATTAGACAA TGGTGTGATT AAAGGTGCAG CACTTGATAC	60
10	GTATGAATTT GAACGCAAAC TTTTCCCAAG TGATCAAAGG GGCAAAACAC TGAACGATCC	120
	ATTGTTAGAA TCGTTGATTG ACAGGGAAGA TGTCATATTA ACACCACATA TTGCGTTTTA	180
	TACTGAAGCT GCAGTTAAAA ATCTAATTGT CGATGCATTA GATGCAACAT TAGATGTATT	240
15	GGCAGACTGG AGATACTAGG TTACGAGTAA ATTAAAAATC GAACTGATGA GATAATTTGG	300
	ATTGTTGGGG ATTCTGCATC CAGTTCGATT TTTTTAATTT GGTGTTGGAT GACGTTGnAA	360
20	TGTTGCCTAA TTTAAACGAC ATCGTAAACC nTGGATCCTC CAATGGCGTC CTTnC	415
	(2) INFORMATION FOR SEQ ID NO: 4006:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 444 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4006:	
	CTAACAGAAG CTAGTATAGG AAATCGGTAC TCGTTAAGGC TGATCTGTGA TGGGGAGAAG	60
<i>35</i>	ACATTGTGTC TTCGAGTCGT TGATTTCACA CTGCCGAGAA AAGCCTCTAG ATAGAAAATA	120
	GGTGCCCGTA CCGCAAACCG ACACAGGTAG TCAAGATGAG AATTCTAAGG TGAGCGAGCG	180
	AACTCTCGTT AAGGAACTCG GCAAAATGAC CCCGTAACTT CGGGAGAAGG GGtGCTCTTT	240
40	AGGGTTAACG CCCAGAAGAG CCGCAGTGAA TAGGCCCAAG CGACTGTTTA TCAAAAACAC	300
	AGGTCTCTGC TAAACCCGTA AGTGATGTAT AGGGGCTGAC GCTGCCCGGT GCTGGAAAGT	360
45	TAANGAGAGT GGGTTACTTC TTGCGACTTA NCGAAATCGA GNCCCCAGTA AACGGCGGGC	420
	CGTAACTATA ACHGTCCTAA GGTA	444
	(2) INFORMATION FOR SEQ ID NO: 4007:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTTGAACTCT ATCAAAGCAT CAGCAATCAA AACATACGTA TCTTTACAAC AGTAATCATG	60
-	CATTCTATGA TGCTTCTAAC TGAATTAAAG CATCGAACAA TCGGAAGCAT ATTTCTAAAT	120
5	TATTTATTCA TTATAGTCTT AAACATAACA TGACCTAATA TATTACTAAC CTATTAAAAT	180
	AAACCACGCA CATCTAAGTG ATATACGACA ATCACAGCAA TAATAATTGC TTTAGAAAGT	240
10	CGTGCCGAAC TGGAACTTAC AAGTCTAGTT CGAACACAC CTGATGTGAG TGGTTTTCTT	300
	TATTTTAAAC ATGAACAATC AGATAAGTTA CTAGCATTAG CAAATATTAT TAAATCAAGG	360
	GCTTCGnTTC ATAAATTTAA AACATGTTAA ATTAGACGTG	400
15	(2) INFORMATION FOR SEQ ID NO: 4008:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4008:	
	TATACTTGTT TTTACAAACC ACAAAAAGCT CTAAACATTA GTTTAAACCA ATGCTTAGAG	60
	CTTTCTAATT ATTTTATGCT TTAAAAGATA CTGTGTTATC TACGATGACC TTACCGTCTT	120
30	TAATAACTTT TTCTGCGTGA TTGATACCAA AATGATATGG AATATATTCA TGATTTGGTG	180
	CATCCCAAAT TACTAAATTA GCCTTATCAC CTGTGTTAAT TGTACCCGCG TTAATGTCTA	240
25	TTGCTTTAGA GCCATTGACC GTAACAGCAT TCCAAACTTC ATTAGGTGAT AGCTTTAATT	300
35	TCAAGGCTGC AATCGCCATA ACAAGTTGTA AGTTGTTTGT GGACACTACT ACCAGGGTTA	360
	TAATCAGTTG GCTAATGCCA TCGGCACCGG TTAATGGTCC	400
40	(2) INFORMATION FOR SEQ ID NO: 4009: (i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4009:	
50	ACAAACATTG AAATTAGAGG TATATAAAAA ATGCTTCTGC AATAGATGCA ATAAACATGC	60
	AATACAATAT GGAGGCGAAG TAAATGAAAA GTATTACGTT TGAAGAACAT TATGTCATTG	120
	AAGATATTCA AAAAGAAACG ATGAATGCGA TATCAGCAGA TCCTAAAGGT GTACCGATGA	180

	ATCATGATGA ACGTATCCAA TTTATGAATA ATCAAGACGT TCAAATTCAA GTCTTATCTT	30
,	ATGGAAATGG TTCTGCTTCA AATTTGGTTG GTCAGAAAGC CATTGAATTA TGTCCAAAAG	36
5	GCAAATGATC CATTGGGCAA ACTATATTGC ACCATATCCC	40
	(2) INFORMATION FOR SEQ ID NO: 4010:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4010:	
	ACTAGAGAAG GTATGTTACG TGACAATGAA TTACTAAATG GTATTTATTC ATCGAGTTAC	60
20	ATCTATAGTT TATTAAAATC AGAATACGAC CAAAAATGAC AAATTAGACT TACAAAAGAG	120
	TGATGACATT TAAAATGGCA GCGCTCTTTT ATTTAATTTT TGAAAATAAA AGGTTGTTGA	180
	CAGTATTATT TTATAACAAT ATAATGATTT TGATAATTAT TATCAACTAG ATGATGTTTA	240
25	TGGGAGGATG CTTTAAAACA GCCGTTTTAA GTGTAATGTA TTATTTTAGC GTGTAGGGAT	300
	GCGAAAATAT ATTTATAGGA CACATCTTGG GGATAATnGA TTTCTATAAT GAGGTGTCAA	360
30	ATGGAAAAGT TACCACGCTA TTATTAGCCD CCACGTTATT	400
	(2) INFORMATION FOR SEQ ID NO: 4011:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 494 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4011:	
	THICAATTAG AAAATATCTI ACCGCTGHCT CTATTTATAC AATCCTCGTA TIGAATGGHT	60
45	CGCTTTCCTA GGGTGCCGTC TCAGCATCGG CTTCGACTGG CACTGCTCCC TCAGGAGTCT	120
	CGCCATTAAT ACTACGTATT AACATGTAAT TFTACTTTGA AATACTTTAA AAAAATAAGA	180
	CACTTTGCCC AACTTACACT ACCAATAAAA ACTTCTGTTA GAATTCCTCA AAATGATATT	240
50	TCGCGACATG TTAATGAAAT TGTTGAAACG ATACCTGATA GCAAATTCGA TGAATTCAGA	300
	CATCATCGTG GCGCAACATC CTATCATCCA AAGATGATGT TAAAAATCAT CTTATATGCA	360
	TATACTCAAT CTGTATTTTC TGGTCGTAGA ATAGAGAAAT TACTTCATGA CAGTATTCGA	,420

	GAATCCHAAT ACTG	494
	(2) INFORMATION FOR SEQ ID NO: 4012:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	, , , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4012:	
15	TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGACATA	60
	AAAAAAGAGA CCTCACGGTC CAACTTGCCT GGCAACGTTC TACTCTAGCG GAAGTAATTG	120
	GCTACCATCG TCGCTAAAGA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTC	180
20	CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT TCTCGTTTCG	240
	TCAGATTCAA ACGTTTTCAC TTCGCCAAGC CATTTTTCTT TGTGTTTACT TTTTATTTTG	300
	ACGTTTTAGG CATAAAAAA AGAGACCTTG CGGTCCCAAT GCGGGCTCAT CGCATCCATT	360
25	TTTTGGCCTG GGCAACGTTC TNATNCCAGC GGAANTNAAT	400
	(2) INFORMATION FOR SEO ID NO: 4013:	400
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
<i>35</i>	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4013:	
	CGAACTGCCG AACCCGAAGA GCGGATTTAC AGTCCGCCGC GTTTACCACT TCGCTACCCC	60
40	TCCAGCTTAT TCATATAATT TAATAATCAA AATGGTGGAG AATGACGGGT TCGAACCGCC	120
	GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT AATTCTCCAA AATAATGACT	180
45	CCTACGGGAC TCGAACCCGT GTTACCGCCG TGAAAGGGCG GTGTCTTAAC CGCTTGACCA	240
40	AGGAGCCATG GCTCCACAGG TAGGACTCGA ACCTACGACC GATCGGTTAA CAGCCGATAG	300
	CTCTACCACT GAGCTACTGT GGATTAATAT TATGCCTGGC AACGTTCTTA CTCTmagCGG	360
50	AACGTGAATT CGACTTACCA TCGACGnTAA GGAGCTTNAC	400
,	(2) INFORMATION FOR SEQ ID NO: 4014:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double

•	(D) TOPOLOGY: linear	
5	(wi) GROUPING PROGRESSION GROUP TO NO. 100	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4014:	
	ATTAGGACCT CAAGACGATA TTACTAAATT TGAATACTTA AAAAAATCTT CTCAAAATAC	60
10	AGGTACTTCA TTATTGGTAT TCAACTTAAA GATCATGATG ATTTAATACA ACTCAAACAA	120
	CGTGTGAAAT CATTTCGATC CTTCCAATAT TTATATTAAT GAAAATAAGA TGTTATATTC	180
	ATTGTTAATT TAACACATAG TAAGADAAAC AGTCATAAAT TGATTTCTAA TTGAAATCAT	240
15	CTTATGACTG CTTTTACATT ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC	300
	ACTTCGCCAA GCCATCTTTC TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAAA	360
	nGnGACCTGC GGTCTCAATG CGGCTTCATC GCATCCACTT	400
20	(2) INFORMATION FOR SEQ ID NO: 4015:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4015:	
	GAATGAAAAG CTCTAAAAGT TGTATTTTAA AAATAGTTCT TTAAATTATA TACCCACCAC	60
	ATTTGGGGAG GAACCTAAAA AAAAGCACTT CCCAAAAATG GAAAGTGCAA GTAGTGAGCC	120
35	ATAGAGGATT CGAACCTCTG ACCCTCTGGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT	180
	AATGGCTCTG AATGGCTGGG CTAGCTGGAT TCGAACCAAC GAGTGACGGA GNAAAGGTCC	240
	GTTGCCTTAC CGCTTGGCTA TAGCCCAATA TATAGATGGT GGAGGGGGGC AGATTCGAAC	300
40	TGCCGAACCC GAGGAGGCGG ATTTACAGTC CGCCGCGTTT AGCCCACTTC GnTACCCCTG	360
	CCAGNTTATT CATATGA	377
45 ⁻	(2) INFORMATION FOR SEQ ID NO: 4016:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	\cdot	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4016:

	ATGACGCACC TGACATCCTC TCGGTTCATA TTCAGGCATA TCCGGACCAC AACTTGGATA	120
5	GTCAGTTTGT TGATTTTCCC AGGTAATCAC ACCATTTTTC ACAAATACTT TCCAAGAACA	180
	TGAGCCTGTA CAGTTAACAC CATGTGTTGT TTCTTACTTC TTTATCGTGG CTCCAACGTT	240
•	CTCTGTACAT TTTTTCCCAT TCTCTACTTT TACTTTCTAG GATCGACCAA TTCCCATTGA	300
10	AATTTTCTG TTGGCTTAAA GAAATCAATC CAAATTTCCC ATATTTATAT CCTCCTACGG	360
	GTGAAAAATA CGGTGTGTAG ANGTCGTGGT TTTTNAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 4017:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4017:	
		60
25	ACTGCCTCCC ACCACGATAA GGGCGTGGGT TAGAAAGCCA ACACAGCTAG GGTAGTATCC	120
	CACCAGCGNC TCCACGTAAG CTAGCGCTCA CGTTTCAAAG GCTCCTACCT ATCCTGTACA	180
	AGCTGTGCCG AATTTCAATA TCAGGCTACA GTAAAGCTCC ACGGGGTCTT TCCGTCCTGT	240
	CGCGGGTAAC CTGCATCTTC ACAGGTACTA TGATTTCACC GAGTCTCTCG TTGAGACAGT	300
	GCCCAAATCG TTACGTCTTT CGTTGCGGGT CGGAACTTAC CCGACAAGGA ATTTCGTTAC	360
35 .		
	CTTAGGACCT TATAGTTACG GCCGnCTTTA ATTGGGGTTT	400
40	(2) INFORMATION FOR SEQ ID NO: 4018: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4018:	
•	TGTCGATTTA AGAGGCATGC TACGAGGAAT GATTGGTCAT CCGAAAAAAG ATCGAGCGGC	60
50 ·	ATATGAGGCA CGCCAAGCGA TTCCAAACAT TAATGAAAAC AGTCCGCCAA TATTAATTGT	120
	ACATGGAGGG AAAGACCAGC AAGTTGGTAT TCATCATGCG TATTATTTAG CGGACCAACT	180
<i>55</i>	AGAGTTAAAA GGTGCCACGC ATGNAAACAT TTTATCAAAT GGCAGAAGGA CATGTGCCAA	240

	CGCATAGCTT AGTTATGGAA ACGTGGTGTG CGCATGGGGA ACTATTCAAG CTTTGGAGGA	360
	TGTGGTACTT ACATGCGTTG GAATTAGGGG TCCGGTTACT	400
5	(2) INFORMATION FOR SEQ ID NO: 4019:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4019:	
	GGAGGTTTGG CACCTCGATG TCGGCTCATC GCATCCTGGG GCTGTAGTCG GTCCCAAGGG	60
	TTGGGCTGTT CGCCCATTAA AGCGGTACCA AGCTGGGTTC AGAACGTCGT GAGACAGTTC	120
20	GGTCCCTATC CGTCGTGGGC GTAGGAAATT TGAGAGGAGC TGTCCTTAGT ACGAGAGGAC	180
	CGGGATGGAC ATACCTCTGG TGTACCAGTT GTCGTGCCAA CGGCATTAGC TGGGTAGCTA	240
	TGTGTGGACG GGATAAGTGC TTGAAACATC TTAAGCATGA AGCCCCCCTC CAAGATGGAG	300
25	ATTTCCCAAC TTCGGTTTnT AAGATCCCTC CAAAGNTGAT GGAGGTTTAA TAGGTTTCGA	360
	GGTGGGAAGC ANGGTGGACA GTTGGGAGCT GGACGANTAC	400
30	(2) INFORMATION FOR SEQ ID NO: 4020:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4020:	
40	GAAGATGTTC GTCATTCTTC AAATAAACCA GAGCTAGTTG CAATTGCTGA ACCAGCATCT	60
	AATAGACCGA AAAAGAGAAG TAGACGTGCG GCACCGGCAG ATCCTAATGC AACTCCAGCA	120
	GATCCAGCGG CTGCAGCGGT AGGAAACGGT GGTGCACCAG TTGCAATTAC AGCGCCATAT	- 180
45	ACGCCAACAA CTGATCCTAA TGCCAATAAT GCAGGACAAA ATGCACCTAA CCGAnTnTTG	240
	TCATTTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAA CAGTTAAACG	300
50	TTTGTTAATA ACTTGCCGGG CTTCACACTA ATCAATGGTG GGCAAAGTAN GGGTGTTTAG	360
	TCATGCAATG GGTAAGAACG AGCATGTTTG GATTTCAGGG	400
	(2) INFORMATION FOR SEQ ID NO: 4021:	

5	(A) LENGTH: 396 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4021:	
10	CTAAGTCATG AATGGGAAGT GGCTCGCGTT GAAGAAGGAC TGACTACTGC TGCCACACAG	60
	CTTGCTAAAC AATTATCAGA ATTAGATTTA GCGTCACATC CTTTTGTGAT GTCAGAGCAG	120
	TTTGCAAGTn TAAAAGATCG TCCATTTCAT CCATTAGCTA AAGAAAAAAG AGGATTAAGA	180
15	GAAGCGGATT ATCAAGTGTA TCAAGCTGAA TTAAATCAAT CATTTCCTTT AATGGTTGCA	240
	GCAGTTAAAA AGACACATAT GATTCATGGC GATACTGCAA ATATCGATGA ATTAGAAAAT	300
20	TTGACAGTAC CTATAAAAGA ACAAGCGACA GACATGTTAA AATGATCCAA GGTTATCAnT	360
20	AGATGACTAT GTACCATTCC GGTACNTCCT GGCCAT	396
	(2) INFORMATION FOR SEQ ID NO: 4022:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4022:	
	GATTGGTCTG NAAGAAGAAT TAATGGAAAA GCTACGTGAA AAATTAGAAG CGGCATTTGA	60
35	TACGATTTAC GAATTGTCTC AAAACCGAAA AATAGATATG AGACTTGCAG CATATATCAT	120
	AGGTATTAAA CGTACAGCAG AAGCAGCTAG ATATCGTGGT TGGGCATAAT TAATTATCAT	180
40 -	ATGTGATTTA ACGAGCTTGG GACAGAAAAC AAAGCCCTAA GCTCGTTAAT TTTATTTTAG	240
	CAGTAGTTGA CTGTAAAACA ATGCCCGTGT AAACGCTCTT TTCAAAAATA GTCGGGGCCC	300
	CAACACAGAG GCTGGTGGGA AAGTCAGCCT ACAATAGNGT GCAAGTTGGC NGGGGCCCCA	. 360
45	ACACAGAGGC TGGCGG	376
÷	(2) INFORMATION FOR SEQ ID NO: 4023:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

CTACCAACTG AGCTAATGGC TCTTCCATGG NGCNGGCCAG AGGACTTGAA CCCCCAACCT ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAGT GACGGGTTCG AACCGCCGAC CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAANTAATTC GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA CTCCTTGCTA TATCACCAGA C (1) INFORMATION FOR SEQ ID NO: 4024: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STANADEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: GCGCGTGCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC GGGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AATTCCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDESS: double (C) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDESS: double (C) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: ACCCCCAC GAGAGACCGC TGGGACCCC GTCCACCGAT (A) LENGTH: ACCCCCAC GAGAGACCGC TGGGACCCC GTCCACCGAT (A) CTCACTGCACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACCAC GACACC			
ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAGT GACGGGTTCG AACCGCCGAC CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAANTAATTC GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA CTCCTTGCTA TATCACCAGA C (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: 25 GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCCCT AGTAATCGTA GATCAGCATG CTACCGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG AATTCGGNAA CATCTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TTPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TTPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TTPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TTPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (XI) SEQUENCE C	·	CAAATGGTGG AGCCATAGGA GGATTCGAAC CTCTGACCCT CTGATTAAAA GTCAGATGCT	60
ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAGT GACGGGTTCG AACCGCCGAC CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAAATAATTC GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA CTCCTTGCTA TATCACCAGA C (2) INFORMATION FOR SEQ ID NO: 4024: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: 6CCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA ACAAGGTTAG CCGTGGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGGAAGG CCGTCGAACAC TCCTTTTGCTG AAGGATGATG ATTTCGGAAA CATCHTTCTT CCAGAAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGT AGAATCCCG TGTGAGTAGC GAAAGACGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCC CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAGGAA GGCTCGTCCC CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAGGAA GGCTCGTCCC CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAGAGAA GGCTCGTCCC CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	_	CTACCAACTG AGCTAATGGC TCTTCCATGG nGCnGGCCAG AGGACTTGAA CCCCCAACCT	120
CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAANTAATTC GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA CTCCTTGCTA TATCACCAGA C (2) INFORMATION FOR SEQ ID NO: 4024: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGG TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGGTTA GTCGGGTCCT AAGCTGAGGC	5	ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC GGCAATATGT AAGAATAAAT	180
GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA CTCCTTGCTA TATCACCAGA C (2) INFORMATION FOR SEQ ID NO: 4024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: 26 30 30 30 31 31 32 32 33 34 35 36 36 37 38 38 38 38 38 38 38 38 38		GGTGGAGAGT GACGGGTTCG AACCGCCGAC CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG	.240
CTCCTTGCTA TATCACCAGA C (2) INFORMATION FOR SEQ ID NO: 4024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCHTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAAGTT TCCAGAAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC TGCTAAAGGTT TCCAGAAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	10	CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAAnTAATTC	300
(2) INFORMATION FOR SEQ ID NO: 4024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: SCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACCTGGAC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCG TGTGAGTAGC GAAAGACGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC		GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: 25 GCCCCTTATG ATTIGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTAT CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG 35 AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 45 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC		CTCCTTGCTA TATCACCAGA C	` 381
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024: (xi) SEQUENCE ACACAGGGCT ACAATGGACA ATACAAAGGG CAGCGAAACC (C) GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC (C) GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA (C) GTAACCTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG (A) AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG (C) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGGT AGAATGCCGG TGTGAGTAGC GAAAGACCGG TGAGAATCCC GTCCACCGAT (C) TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	15	(2) INFORMATION FOR SEQ ID NO: 4024:	
GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	20	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC			
GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS:	05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024:	
TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	25	GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC	60
GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC		GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC	120
GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS:	30	TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC	180
AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS:		GGGTCTTGTA CACACCGCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA	240
ATTTCGGNAA CATCHTTCTT CCAGAAGATG CCGGTAATAA (2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS:		GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG	300
(2) INFORMATION FOR SEQ ID NO: 4025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	35	AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC 12		ATTTCGGNAA CATCHTTCTT CCAGAAGATG CCGGTAATAA	400
(A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC 12		(2) INFORMATION FOR SEQ ID NO: 4025:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025: CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC 12		(A) LENGTH: 352 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC 12	45		•
TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC 12		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025:	
	50	CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT	60
CGACANGTAN GGCGATGGAT AACAGGTTGA TATTCCTGTA CCACCTATAA TCGTTTTAAT 18		TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	120
		CGACANGTAN GGCGATGGAT AACAGGTTGA TATTCCTGTA CCACCTATAA TCGTTTTAAT	180

	GCTGAGTATT AGGCAAATCC GGTACTCGTT AAGGCTGAGC TGTGATGGGG AGAAGACATT	300
	GTGTCTTCGA GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA AA	352
5	(2) INFORMATION FOR SEQ ID NO: 4026:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(D) 101030011 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4026:	
15	TGGGGCTCTT CCCGTTTCGC TCGCCGCTAC TAAGGGAATC GAATTTTCTT TCTCTTCCTC	60
	CGGGTACTAA GATGTTTCAG TTCTCCGGGT GTGCCTTCTG ATATGCTATG TATTCACATA	120
 20	TCGATAACAT GACATAACTC ATGCTGGGTT TCCCCATTCG GAAATCTCTG GATCAAAGCT	180
	TACTTACAGC TCCCCAAAGC ATATCGTCGT TAGTAACGTC CTTCATCGGC TTCTAGTGCC	240
	AAGGCATCAC CGTGCGCCCT TAATAACTTA ATCTATGTTT CCACCATTTT TATAAGTCAA	300
25	ANGTTAACAT GAAGTTAGGT TCTTTTATAA AAGGATTAAA NGGGTTATTA ATCTTGTGNG	360
	TGTTCTTTCG	370
	(2) INFORMATION FOR SEQ ID NO: 4027:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4027:	
40	TCATGTTTCG CTTGGTTTAA TGCTGTTAAT GCGTTATCGA CACGATGTTT TTCATCTGAA	60
	ATTIGITGIG CAGTIGCATC GCCATTGICA ATAACACGII GAGCIGCAGI TATTICAGII	120
	TCTGCTTCCG CTTCTTCGCA TTATAGTTAT CAATACTTTG TTGCGTCATA CCAGCAGTTG	180
45	ATGGTACTTG GTTCACAGAA CTTTGTAAGT TATTTTTAGA CGTTACTAAT TGGCTATTAT	240
	CTTCTTTATT TTGAAGTAAT GCTTTACTTG GATCAATCTT AGTTTGTGCG CACGAACTTT	300
	AGTTAGTGCG TGCAGAAACT TGTTGTGGTG TTGCACGCTC ATTNATGAAG CACTGTTGGT	360
50	GCCTCCGTTT, TCGCATAnTG GATTGTTGTT GCGCATGAGG	400
	(2) INFORMATION FOR SEQ ID NO: 4028:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4028:	
10	CTCATCGCAT CCATTTTTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTGGCTAC	60
	CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG	120
	GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA	180
15	TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT	240
	TTAGACATAA AAAAAAGAGA CCTTGCGGTC TCAATGCGGC TCATCGCATC CATTTTTTGC	300
20	CTGGGCAACG TTCTACTCTA GCGGGAACGn AAGTTGGGCT TACCATCGAC GCTAAGAACC	360
20	TTTCTTGGAC TTGGTGGACA AACGGNGTGG CTGCTTTTCC	400
•	(2) INFORMATION FOR SEQ ID NO: 4029:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4029:	
	AGGACTTGAA CCCCCAACCT ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC	60
<i>35</i>	GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC CCTCTGCTTG	120
	TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC	180
40	TACTCTAGCG GAANTAATTC GGACTACCAT CGACGCTAAG GAGCTTAACT TCTGTGTTCG	240
	GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG TAATTTGATA	300
	CATTCAAAAC TAGATAGTnA AGTGAAAAGT GATTTTGGnT TCGCAAAACC ATTTGATTTT	360
45	GATTGAAGTC CTTCGATCGA TTGAGTGATT CGTGCAGCTn	400
	(2) INFORMATION FOR SEQ ID NO: 4030:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	GATGATAAAT CATGTTTTTC ATACCAAGTC GCTGCCGGCA AAACAATGTC AGAATATAAC	60
	GGTGTTGCCG TCATTCTGAA GTCTAAAGAG ACCACTAAAT CTAACTTACC TGTTGTTTCT	120
5	TCACGCCACG TAATTTCTTC TGGCTTTTCA TCTTCATTTG GTGTAGCTAA TAACCCTGAT	180
	TTTGTGCCAA GTAAATGCTT CATAAAGTAT TCTTGACCTT TTGCAGAACT TGAAATTAAG	240
10	TTTGAACGCC ATATAAATAA TGATTTTGGA TGATTCTTTT CAAATCAGGA TCTTCTATTG	; 300
70	CAAATTGTGG TTTGTnTTGG ATTTCACnTC ATCAATTGCA CGTTGCAAAA TCGCTTCATG	360
	TGAATCTATA CCCTGCATCT TGTAGCnTCC	390
15	(2) INFORMATION FOR SEQ ID NO: 4031:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		٠.
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4031:	
	TGGTTCGAAT, CCAGCTAGCC CAGTTATTGG CGGCATAGCA AGTGGTAAGG CAGAGGTCTG	60
	CAAAACCTTT ATCACCGGTT CAAATCCGGT TGCCGCCTCC AGGTTTATGC GGGAGTAGTT	120
30	CAACTITIAG AACACGTTCC TTCCCGGAAN GAGGTATAGG TGCAAATCCT ATCTTCCGCT	180
•	CCATAATTTA ATAATAATGC GGGAGTATTT CAACTCTTAG AATACATTCC TTCCTGGAAT	240
	GAGGTATAGG TGTAAATCCT ATCTTCCGCT CCATAATTTA ATATTTGCGG GGAGTAGTTC	300
35	CAACTTTTAG AACACGTTCC TTCCCGGGAA GGAGGTATAN GTGTATCCTA TCTTCCGCNC	360
	CATAATGCCT TCCAAAGGGG AATTTTTTGG TTTnACCATT	400
40	(2) INFORMATION FOR SEQ ID NO: 4032:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4032:	
50	GTATCGATGA GTTTCTTCGG TGCGTCTTCG ACAGCCATTT TGACTTCGAC AAAATGCATC	60
	ACATCGGGAT GACCATTAAT TGCATTAAAC GTGTCTTGTA AATCTTTTGA TGATTCAACG	120
	TCATGAATTT CAACATTTTT ACCACCAAAT ACAGCTGGTA AAGCTTTATA ATCCCACATG	180

	TTATTAATCA CCAATAATAC CGGGTTAATA TGCTGTCTAA TCATAGTTGG AAATAGCTTG	300
	AACAGTTAGT TGGCCATGAG CCATCACCCA TTTAATAATA AGTTACGACG GATCTTTGGT	360
5	CTGCCAATTG GGGGANCNCA ATGTTGCAGG GNAATGGTAT	400
	(2) INFORMATION FOR SEQ ID NO: 4033:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4033:	,
	CACGACGTTC TGAACCCAGC TCGCGTACCG CTTTAATGGG CGAACAGCCC AACCCTTgGG	60
20	ACCGACTACA GCCCCCAGGA TGCGATGAGC CGACATCGAG GTGCCAAACt CCCCGTCGAT	120
	GTGAACTCTT GGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT	180
	GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT	240
25	AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTCC AACCATTCTG	300
	AGGGAACTTT GAAGCGCTCC GTACCTTTTA AGANGGCGAC CGGCCCAGTC AAACTGGCCG	360
30	CTGACACTGT CTTCCAACAC GATAAGTGGT GCGGGTTAGA	400
	(2) INFORMATION FOR SEQ ID NO: 4034:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4034:	
	AATTCCATGT GTACGGTTGA AATGCGCAGA GATATGGAGG AACACCAGTG nCGAAGCGAC	. 60
45	TTTCTGGTCT GTAACTGACG CTGATGTGCG AAACGTGGGG ATCAAACAGG ATTAGATACC	120
	CTGGTAGTCC ACGCCGTAAA CGATGAGTGC TAAGTGTTAG GGGGTTTCCG CCCCTTAGTG	180
•	CTGCAGCTAA CGCATTAAGC ACTCCGCCTG GGGAGTACGA CCGCAAGTTG GAAACTCAAA	240
50	GGAATTGACG GGGACCCGCA CAAGCGTGGN AGCATGTGGT TTANTTCGAA CAACGCAGAG	300
	AACCTTACCA AATCTTGACA TCCTTTGACA ACTCTAGAGA TAAAGCCTCC CCTTCGGGGA	360
	CAAATGACAG TGGTGCANGT TGTCCTCACT CGTGTCGTGA	400

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4035:	
10	TTCGCTTTGC CCGTCTGTCA CATTACTGTA AAATTCTATA AATAGAATTT TTGATGACGG	60
	GTCCCTTCCT AGGGTGCCGT CTCAGCCACC CCAACCGGCA CATTGTTGTA AGCTGACTAT	120
15	ATGTCACTTC TGTGTTGGGG CCCCTGTCTT CGACTGGCAC TGCTCCCTCA GGAGTCTCGC	180
	CATTAATACT ACGTATTAAC ATGTAATTTT ACTTTGAAAT ACATTAAAGC CCAAATTAAT	240
	CAAAAGCTTT CTGAACCAGA AACGAAAAAA ATCTATAGTC ATAGAAAAAT TTATGTAGAG	300
20	CCTGTTTTTG GATTTATGAA GGCTATTTGG GGTTCACTCG AATGTCAGTT CGAGGAATAA	360
*	ThAAGThAAC GAGAGCCAGG TTTGTAATTA TGGCACThAT	400
25	(2) INFORMATION FOR SEQ ID NO: 4036:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4036:	
<i>35</i>	TAAATGTTGA AAAAGCACGA TTAGATAGAA TTTTGAATAA CAATGAAATT CGTCAAATGA	60
	TCACAGCATT TGGTACAGGA ATCGGTGGCG ACTTTGATCT AGCGAAAGCA AGATATCACA	120
	AAATCGTCAT TATGACTGAT GCCGATGTGG ATGGAGCGCA TATTAGAACA TTGTTATTAA	180
40	CATTCTTCTA TCGATTTATG AGACCGTTAA TTGAAGCAGG CTATGTGTAT ATTGCACAGC	240
	CACCGTTGTA TAAACTGACA CAAGGTAAAC AAAAGTATTA TGTATACAAT GATAGGGGAC	300
45	TTGATAAACT TAAATCTGAA TTGAATCCAA CACCAAAATG GCTATTGCAC GTACAAAGGC	360
-10	TTGGAGAATG AATGCAGTCC ATTTGGGAAC ACATGACCTG	400
	(2) INFORMATION FOR SEQ ID NO: 4037:	
50 ,	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
5 5	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4037:	
	TCGTCGCTAA AGACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT CTCCTTCGGC	60
5	TCTCGCTTAC TCATTTAGCT CTACTAAACT CGTTGCGGTC TTTTCTCGTT TCGTCAGATT	120
	CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTATT TTGACGTTTT	180
	AGACATAAAA AAAAGAGACC TTGCGGTCTC AATGCGGCTC ATCGCATCCA TTTTTTGCCT	240
10	GGCAACGTTC TACTCTAGCG GAANTAAATT GGGCTACCAT CGACGCTAAG AACCTTTCTT	300
	GACTTGTGAC AATCGCTTGC TTCTTTCCTC TTCTTCGGCT CTCGCTTACn CATTTAGCTC	360
15	TACNAAACTC GTTGCGCTCT T	381
	(2) INFORMATION FOR SEQ ID NO: 4038:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4038:	
	CTGTTTGTCA TACTTCATAA ATCCTTTAAA TTCACCCATC GTATCTCCCC CTTTCCTTAA	60
30	TACACAACGG CTGGTTTATG TTTAGCATCG ATTGTTTTAC TGTCATCGTA AAATGCAGCT	120
	AACATCGCTT CATCTTCATT GTCATGTAAT GATTTGTGCA AATGAATTTT TTGCATCATT	180
	AATTGATAAT CTTTAGGAAT AACTTTAACG ACGACATCTT CAATGCGATC AAAATGTTTT	240
35	AACACATGAA TCGCTCTCGT ACTATTCGTG TGTGACACAT GTnCTTCCAG CATTTGCTTA	300
	ATGAATGCTT TTnCTTCTTG GTGTTTAATC TTTGTAAACG AAAGCGTATC TAGTGATANG	360
	(2) INFORMATION FOR SEQ ID NO: 4039:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4039:	
50	AGTGCGAACC CATAACCTCT TGATCCGTAG TCAAACGCTC TATCCAATTG AGCTACGGGC	60
	GCATATGTTT TTATTGAAAA TGGTGCCGAG GACCGGAATC GAACCGGTAG TGANTGCACT	120
	CACCGCAGAT TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG	180

	GAACTACTTC TGCATATGCG GGTGAAGGGA GTCGAACCCC CACGCCGTAA GCTNAGGATC	300
	CTAAGTCTAG TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC	360
5	GAACCTCTGG ACCCTCTGGA TTAAAAAGTC AGATGCTCTA	400
•	(2) INFORMATION FOR SEQ ID NO: 4040:	·
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4040:	•
	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	60
20	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	120
	TCGCCAAGCC ATTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAG	180
	AGACCTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA	240
25	CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC	300
	GGCTCTCGCn TACTCATTTA GCTCnACTAA ACTCGTTGCG CTCTTGTTCT CGTTTCGGGC	360
30	AGATTCAAAC GnTTGTCA	378
	(2) INFORMATION FOR SEQ ID NO: 4041:	
35	(i) SEQUENCE CHARACTERISTICS: (Â) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	4.
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4041:	
•	GTACCTTAAC AATATCTCGA AATGGACGAA CTAAATTATG AACCGCATGA AAGGATACTT	60
45	GCGAATCATT TGAGCATGCT TGAATCATAA TATCACCATC GCTGTAATCG TCTATTAACT	120
	GATCATTCGG AAAATGCGGT AAATCTTTAA AGGCATCGGG AATTTTACTA GATAACCCAA	180
	TTTTCTTCAT CAAAGACTTA CTAATCCCAA AGGTAATCGT TAACTTGCTT GCACCTAATC	240
50	CTATCGATTC ACCGGTATCT ACTGGTGGGC ATTAAAGGAT TGTTACTCGG GCTTGGCCAA	300
	CTGTATCACC ATCCATCATA CGATTCAGCC ATAACGGTCC ACTTTTTTAA ACATTGGCTT	360
	TATTGGCACC CNAACCTTTG GACTTCNAAT CTAACGGCCA	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4042:	
10	GACTTGCAAA CGTTGTGATG ACGGTCAAGA AAACTGGTAA CACACCAGAC GGACGTAAAG	6
	CTGGCGAACC ATTTGCTCCA GGTGCAAACC CAATGCATGG CCGTGACCAA AAAGGTGCAT	120
15	TATCTTCATT AAGTTCTGTA GCTAAGATCC CTTACGATTG CTGTAAAGAT GGTATTTCAA	180
	ATACATTCAG TATCGTACCA AAATCATTAG GTAAAGAACC AGAAGATCAA AACCGTAACT	. 240
	TAACTAGTAT GTTAGATGGT TACGCAATGC AATGTGGTCA CCACTTAAAT ATTAACGTAT	300
20	TTAACCGTGA AACATTAATA GATGCAATGG AACATCCAGA AGGAATATCC ACAGTTAACA	360
	ATCCGTGTAT CTGGTTACGC TGTTAACTTC ATTAAATTAA	400
	(2) INFORMATION FOR SEQ ID NO: 4043:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4043:	,
<i>35</i>	CTATTTTATC TAAAGTTAAA CCTGACCCAC CTAGAATTGA CGCAAACTCT GTGACATATA	60
	AAGCAGGTCT TACAAACCAA GARATTAAAG TTAATAACGT ATTAAATAAC TCGTCAGTAA	120
	AATTATTTAA AGCAGATAAT ACACCATTAA ATGTCACAAA TATTACTCAT GGTAGCGGTT	180
40	TTAGTTCGGT TGTGACAGTA AGTGACGCGT TACCAAATGG CGGAATTAAA GCAAAATCTT	240
	CAATTTCAAT GAACAATGTG ACGTATACGA CGCAAGACGA ACATGGTCAA GTTGTTACAG	300
	TAACAAGAAA TGAATCTGTT GATTCAAATG ACAGTGCACA GTGAACAGTG GACACCACAA	360
45	TTGACAAGCC AACTACTGAA GGCGCnGTGn TTATTAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 4044:	
		•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<u>-</u> ;		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4044:	
	AAAATGGCTT GATTTGAAAA ACGACCAGCA TGCGCTACTG GNATAATAGC GAGGCTACCA	60
5	TGTTGTTTCA TCGTAGnCGC ATGTTAGTTA ATCCAGGGAT ACAAGCATCA TGATCAATAT	120
	TAAAGCCATA TTCAAACAAT TGACCATAAG GTTCAATGTA AGCAGCGCCG GTGCACTTGC	180
10	ATTCCAGCTG AATTAGAGCG ACGTGCAGCA TAAGCCAAGT CTTCTTTTGT AATATAGCCT	240
"	TCTTTTGTTG ATGTGTTTAC GGTCCATTGG GTGGATAATA CAAAGCGATT CGAAATTTTG	300
	ATGCCATTAG GTAAGTGGAT TGATTGTAAA AGTGGTTTGT ATCGGTACAT ACTATGATTC	360
15	ChTTTCCATT GCAAT	375
	(2) INFORMATION FOR SEQ ID NO: 4045:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4045:	
	GTTCCAATGA AGATAGCTAG AAATGATATC CAAAACACAT GATGCATCAC TGGTGATGCT	60
30	CGACTAATTG TATTCCATGA TGCATTAATA ATAATGACCA ATACACATAA AATAAGCAGC	120
	CATTTATCGT TTATTTTAAA AATATAATGC AGCAAAAAATC CCAAAATGAT TAATTGCACA	180
	ACTGCTCGTA ATGTCGCAAC AATTAAATCT TTAATAATAT GTAAACCTTC TTTATATGAA	240
35	ATGATAATCG GAATGACTAA AAGCAATGCC GTCAATCCAA GTGCCGTATT ACTCATGTnG	300
	ATTCAACTCC TCTGTATTAG AAATTTGACC ATCAACAATT GTTATACGCT TTTTGnAAGT	360
	GGTCGCATAC TTTGGGGCAT CGCTGTGGGG TAGGGGGGnCn	400
40	(2) INFORMATION FOR SEQ ID NO: 4046:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4046:	
	CGAGTCTGAG TCGCTGTCTG AATCTGAATC GCTGTCTGAG TCCGAATCGC TATCTGAATC	60
	TGAGTCGCTG TCTGAGTCTG AATCGCTATC TGAATCTGAG TCGCTATCTG AGTCTGAGTC	120

	TGAGTCTGAG TCGCTATCTG AGTCTGAGTC GCTGTCTGAA TCTGGAGTCG CTGTCTGAAT	240
_	CTGGAATCGC TGTCTGGAGT CTGAATCGCT ATCTGAGTCT GGAATCGCTA TCTGAGTCTG	300
5	AATCACTGGT CTGGAGTCCG AGTCACTGTC TGAATCTGAC TGCACTNACN GGATTCTGAG	360
	TCGCTAACnG GAATC	375
10	(2) INFORMATION FOR SEQ ID NO: 4047:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4047:	
	ATGGGTAAAA AGGCATTAGA GTCAATCATT GATAACGCTG ATGAAACAAC TCAAGAGCGT	60
	TTACGTTCAG GATATGAAGA TGCTGTAGAT TATAACCGTT ATGTCGGTAA TATTTATACT	120
25	GGATCATTAT ATTTAAGCCT AATATCATTA CTTGAAAATC GAGATTTACA AGCTGGTGAA	180
٠,	ACAATCGGTT TATTCAGTTA TGGCTCAGGT TCAGTTGGTG AATTTTATAG TGCGACATTA	240
	GTTGAAGGCT ACAAAGATCA TTTAGATCAA GCTGCACATA AAGCATTATT AAATAACCGT	300
30	ACTGANGTAT CTGTTGGATG GCATATGGAA ACATTCTTCC AAACGTTTTG GATGACGGTG	360
	GAATTTGACG GnGGACCAAG ATGCnTGTTC CAGGAGGTCC	400
	(2) INFORMATION FOR SEQ ID NO: 4048:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
40	(b) TOPOLOGY: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4048:	
45	CAAACCATCT GACATAATAT ACACTTGGAT GTTAGATAAG GGTTTGCCAA TTGGAATCGT	. 60
40	CTCAGGTATC AATCACCACA ATGATGTGAC CAATACGATG TGATGACTGT TGACTCAGAT	120
	GGTCCATAGG CATTGAAATA CGTGCCACAA TGCTTCTCAA TATATTTAAC AAAGGATGCC	180
50	GTACTAGTTG CCCCGCCTGT AATCAACTTT TCAATATAAA AGTCTTCCAT AACACTACAC	240
	ATCTGTAACG GAATCGACGC AACCGTCACA CGATGCTTAT TAATGAGTTG TTGTAACTGT	300
	TCTGGATTAA CACGNTCCTC TCTATCTGGA nTCACAAGCG TATGACCATT AACAAACAAC	360
<i>55</i>	**************************************	300

(2) INFORMATION FOR SEQ ID NO: 4049:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4049:	
	TCTGCATGTT CTCGAGATCC ACCAAATGTT AAATGGGTAT GTGCATCTAC TAATGCTGGG	. 60
15	GACACTACCT TCCCACTAGC ATCAATCGTC TCAGTCGCAT CGTAGTCATC TGTATGTGTT	120
	CCAGCATATA CAATTTTGGC CATCTTTAAT GACAACTGTA CCATTTTCA CAACATTTGA	180
	ATTCATCTAA TTCCTTACCC TTCAAAGGTT TATCTGTTGA TCTCGGTAAA ATTAATTGCT	240
20	GCTATATGAT TANTATTAAA TCATTCATTA CTATCACCTG CTTATCAATC ATGGAATAGA	300
	ATACCTTTTC nTTAGCGTTT GAATAGCGAG TCATAGCCAG CATCAACATG TCGGGCAACA	360
25	CCCATACCGG GGTCATCGTC CAATACACGT TCCAAnCTnC	400
20	(2) INFORMATION FOR SEQ ID NO: 4050:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4050:	
	ATCACCCATG TTCTGACTCC CAAGTTAAAT TAATTGGCAT TCGGAGTTTG TCTGAATTCG	60
٠	GTAACCCGAG AGGGGCCCCT CGTCCAAACA GTGCTCTACC TCCAATAATC ATCACTTGAG	120
40	GCTAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATTTCC AGGTTCGATT GGAATTTCTC	180
₹,	CGCTACCCTC AGTTCATCCG CTCACTTTTC AACGTAAGTC GGTTCGGTCC TCCATTCAGT	240
45	GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG TTTCGGGTCT ACGACAAATA	300
	CTAAACGCCT ATTCAGCTCG nTTCGTACGG CTCCACATTT ACTGCTAAnC TTGCATCAAT	.360
	CGTACTCGCG GTCAATCTAC AAAAGnACGC ATCACCAnTA	400
50	(2) INFORMATION FOR SEQ ID NO: 4051:	
5 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

		•
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4051:	
5	AGTGAAAATG ACTTTATCGG GCTGTTCAGC GATATGGATT TGAGTTCAAC GCGACTAGGT	60
	AACAATGTCA AAGAACGTAC TGCTTTAATC TCTAAAGTCA TGGTTAATCT TGACGACTTA	120
10	CCATTCGTTC ACAGTGACAT GGAAATTGAT ATGTTAGGTG ATGCATATGA ATTCCTAATC	180
	GGGCGCTTTG CGGCGACAGC GGGTAAAAAA GCAGGCGAGT TCTATACACC ACAACAAGTA	240
	TCTAAGATAC TGGCGAAGTT GTCACAGACG GTAAAGATNA ATTACGTCAC GTGTAACGAC	300
15	CCAACATGTG GGnTCCGGTT CATTGTGGTA ACGTGTTGGT AAAGAACGCA AGTGTATCGT	360
	TAATTCGGAC nAAGAACGTA ACAATACTAC nTACGACTTA	400
	(2) INFORMATION FOR SEQ ID NO: 4052:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4052:	
30	TCCTACAACC CCAACAAGCA AGCTTGTGGT GTTGGGCTCT TCCCGTTTCG CTCGCCGCTA	60
	CTAAGGGAAT CGAATTTCT TTCTCTTCCT CCGGGTACTA AGATGTTTCA GTTCTCCGGG	120
	TGTGCCTTCT GATATGCTAT GTATTCACAT ATCGATAACA TGACATAACT CATGCTGGGT	180
35	TTCCCCATTC GGAAATCTCT GGATCAAAGC TTACTTACAG CTCCCCAAAG CATATCGTCG	240
	TTAGTAACGT CCTTCATCGG CTTCTAGTGC CAAGGCATCC ACCGTGCGGC CCTTAATAAC	300
40	TTAATCHATG TTTTCCACCA TTTTTTATAA GTHCAAAGGC TTCACATACG GCTTCGGTTT	360
	TTCATTAATT TTAAATGGCn CAATTTAACA	390
	(2) INFORMATION FOR SEQ ID NO: 4053:	٠.
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4053:	
	AACATACCGA TGTATATAAT CTATACACAA AGGATAATTA CTTATGCAAA GGCGGAGGAA	60
5 5		

	GTCGATTGCG AATGATTTAA GAGGGAACAT GGATGCGAGT GAATTCCGTA ATTACATTTT	180
	AGGCTTGATT TTCTATCGCT TCTTATCTGA AAAAGCCGAA CAAGAATATG CAGATGCCTT	240
5	GTCAGGTGAA GACATCACGT ATCAAGAAGC ATGGGCAGAT GAAGAATATC GTGAAGACTT	300
	AAAAGCAGAA TTAATTGATC AAAGTCGGTT ACTTCATTGA GCCACAAGAT TTATTCAGTG	360
	CGATGATCGT GAAATTGANA CGCANGATTT CCGATATAGA	400
10	(2) INFORMATION FOR SEQ ID NO: 4054:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4054:	
	GTAAGACCAT CGTACTTGAG TCTTCAAGTG TTCTTGATAA AACGGAACGA GAGACTTGGT	60
	ATTITICGAA CAAATCITIC ATTAACACAC CGACCATAAT AATTACAATC GAAGCAACAC	120
25	CTGCAGCGAA TACAAGCGCA ATACAACAAA TAACAGTAAT ACATATTAAA CTTCCTACAG	180
	AATGGATGCC TTTAGAAATA GTAGTTAATA AGACTTCTAA ACATCCTGCT TTTTCTACAA	240
30	TACCTGCAAA TGCATATCCG CAAAATATCG TTACTAATAT TTGGGnCATA CTCATCATAC	300
00	CACCCTGTTC TAACAAGCTT TCACACTGGA TGAATATGAG nTGATGTATC ATTGATCGTT	360
	AAACCCTAAT GTGCTTTGAA CCATCGTCAT TTGAATGTGA	400
35	(2) INFORMATION FOR SEQ ID NO: 4055:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4055:	
	CGTCTACAAG TTCAAAATTC AAGTCTTCCA TAATTGGTTT AACAATCACT TCTACTTGTT	- 60
	CTGTAATTTT ACTCATACAG GCCTCCCTTT TTGGCAAATA GAAAAGAGCG GGAATCTCCC	120
<i>50</i> .	ACTCTTCTGC CTGAGTTCAC TAATTTTTAA GCAACTTAAT TATAGCATAA GTTTATGCTT	180
	GAAACAAATG ACTICACTAT TAATCAGAGA TICTIGTAAA AGTITGITCC TITATITCAC	240
	CATTACATTT GAATAGACTC GTAAGACATT GAAAAGAAAT ACGGGCATAA TTTTGTGTCC	300

	TCATTTTACA TATCAAATAT CGGAAGTTGA GCTTTATCTG	40
	(2) INFORMATION FOR SEQ ID NO: 4056:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 481 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
٠		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4056:	
15	ATTTTGGTTT ACTTCATGTT GAGTTTTAGA CATTTTAACC ATCTCCAATA TAAAAATAAA	60
	TTAAATTAAA TTCTCAGGGA CTTGCATGAC GCCACCTGTA TTTGCGCTAG TTACTAGGGC	120
	AGTATAACGA GCTAGATAAC CTGTTTTTAC TTTCGCTTTA AATGGTGTTA AAGATTCTCG	180
20	GCGACGCGCT AGAACATCTT CAGGCTGGTT TACGTTTAAT GTACGATTTG TTAAATCAAT	240
	AGTAATCTCA TCACCATCTT CAATTAAGGC AATTGGTCCA CCAGATGCAG CTTCAGGGGA	300
	AATATGACCA ACTGCAATAC CTCTTGTGGC ACCGGLAAAA ACGCCCATCA GTKAATTAAT	360
25	GCaACATCTT TACCTAAGCC GCGaCCAACA ATAGAGGAAG TAGGTGCTAA CATTTTCAGG	420
	nCATACCTGG GTCCACCTTT TAGGTGCCTT TCANTATCTn ATGGACAACG ACGTGGGCCT	480
30	G	481
	(2) INFORMATION FOR SEQ ID NO: 4057:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4057:	
	TTTTTGCCTG GCAACGTTCT ACTCTAGCGG AACGTAAGTT GGCTACCATC GTCGCTAAAG	60
45	ACCTTTCTTG ACTTGTGACA ATCGCTTGCT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC	120
	ATTTAGCTCT ACTAAACTCG TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA	180
٠	CTTCGCCAAG CCATTTTCT TTGTGTTTAC TTTTTATTTT GGACGTTTTA GACATAAAAA	240
50	AAAGAGACCT TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT	300
	ACTCTAGCGG AAGTAAATTG GGCTACCANC GACGCTAAGA ACCTTTCTTG GACTGTGACA	360
	ATCGGCTGCn TCTGTnCCT	379
<i>55</i>		

•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4058:	
	CTGCATCACT GCCATAAAAA CTACCGTCAG CAGCGATAGn CGGCCAATCA TACCAGGAAC	60
	AAGACCGGGC TTGTCAGCGA TACTAACAGC GATATATCCA GCTAGTATTG GAACCATAAA	120
15	TTTAAAGGCT AAACTACCAA TGTTTTCAAT GGATTTCCAA AATGAATCAT CTGGGATGAC	180
	TAATCCTTTT GATGTCGTTT CACCGCCTAG AGTCAGCGCG ATGGCGATAA GGAGTCCACC	240
	AACTACGATA AAAGGAACCA TAAACGATAC ACCGTTCATT AAATGTTGAT ACACCATTTG	300
20	AATACCATTT TAGACTHACC GCGATCTTTC GAATGATAAT TTGTTTCAGA TGGTTAAATA	360
	GGCGCATTTG ATTTAATGAT ACGTGGATTT GGACCCTCGG	400
25	(2) INFORMATION FOR SEQ ID NO: 4059:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4059:	
<i>35</i>	TTAAAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAACTA AGTnGAnCTA CCATCGACGC	60
	TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC	120
	CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT	180
40	TCGCAAAACA TTTATTTTGG ATTAAGTCTT CGATCGATTA GTATTCGTCA GCTCCACATG	240
	TCACCATGCT TCCACCTCGG AACCTATTAA CCTCATCATC TTTGGAGGGA TCTTATAAAC	300
45	CGAAATTGGG GAAATCTCAT CTTGAGGGGG GCTTmCATGC TTAGATGCTT TCCAGCACTT	360
•	ATCCCGT	367
	(2) INFORMATION FOR SEQ ID NO: 4060:	
50 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4060:	
	TTCCGnACTC ACATAGCGAC TCAGGATTCA GACAGCGCAT TCAGATTCAG ACACCGCATT	. 60
5	CAGATTCAGC ATAGCGATTC AGCATTCCGC ACAGTGACTC AGNATTCCGA CAGTGACTCG	120
	GATTCAGATA GCGATTCAGA TTCCGACAGT GACTCAGATT CCGACAGTGA CTCAGACTCA	180
	GACAGTGATT CGGATTCAGC GAGTGATTCG GATTCAGATA GTGATTCCGA CTCCGACAGT	240
10	GACTCGGATT CAGATAGCGA CTCAGACTCG GATAGCGACT CGGATTCAGA TAGCGATTCG	300
	GACTCAGATA GCGATTCAGA ATCAGACAGC GATTCAGATT CAGACAGCGA CTCAGACAGT	360
15	GACTCAGATT CAGA	374
	(2) INFORMATION FOR SEQ ID NO: 4061:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4061:	
	AAAATCATAA TATTTGGCAA TTTTTTCAAC TTGACTCTGG TCCTTCTGCA TAACTGCCGT	- 60
30	AAATAATTCA CCTTCATCAC ACGCTGTACC TACCAATAAT CCCTCACGAT ATTCATCTAA	120
٠	CAATGAACGT GGAATTCGAG GTGTACGGTA GAAATACTTC ACCAATGATG CACTTACAAT	180
	TTTAAATAGA TTTTTAAGAC CTTGTTGGTT TTGTACAATT AATGTGACAT GACTAGGTCT	240
35	TGCACGTTTA TATGCATCTT CATTACTGAG TTTTTKGTtG ATTTCGTTAT GATTTAATAC	300
	GCCTAAWTCY TTCATTTGTT GAACCATTTT TATGAAAATG TAAGCTGTTG CTTCTGTATC	360
40	ATAAATGGCA CGGTGATGTT GCGTTAATTC TACGCCATAT TTTTTAGCCA AGAAATTCAA	420
40	ACCATGTTTA CC	432
	(2) INFORMATION FOR SEQ ID NO: 4062:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4062:	
	TATCTTCGTT CTCAATAGAA TGATTTAAAC CTTCGATTTC TTTATCTAAA TGACTACCAA	60
<i>55</i>		

	TTTTTTCTTC AACTAAGTCA CGATATAATG TTTTTGAATT TTCGTTCAAT TTCGATTCGT	180
	GATTTTGAAT ACTITITCTTC CACACAAATG TATACCTATT GGCATTAGCT TCTACTTTTG	240
5	TACCATCAAT AAGATTTTGC TTTAAACATT GACTATGAAA CTGGGATAAA TAAAGAnTCA	300
	ATTAACGCAT CAGTATTAGG GANTCACTCT AATACGATTA ATAGTTTTTA TAAGAAGGTG	360
10	nTTGGATTTG GAGCTAACCA CATCCA	386
10	(2) INFORMATION FOR SEQ ID NO: 4063:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4063:	
	TAGGAGAGCG TTCTAAGGGC GTAGCATGAT CGTAAGGACA TGTGGAGCGC TTAGGAGAAT	60
	GCCGGTGTGA GTAGCGAAAG ACGGGTGAGA ATCCCGTCCA CCGATTGACT AAGGTTTCCA	120
25	GAGGAAGGCT CGTCCGCTCT GGGTTAGTCG GGTCCTAAGC TGAGGCCGAC ACGTAGGGCG	180
	ATGGATAACA GGTTGATATT CCTGTACCAC CTATGAATCG TTTTAATCGA TGGGGGGACG	240
30	CATAGGTATA GGCGAGGTGA CGATTGGGAT TGCACGTCTT AAGCAGTAAG GCTGAGTATT	300
	AGGCAAATCC GGTACTCGTT nAAGGCTTGA GCTGTGGATG GGGAGAAGAC ATNGAGTCTT	360
	CGAGTTCGTT GGnTTTCACA ATGGCC	386
<i>35</i> .	(2) INFORMATION FOR SEQ ID NO: 4064:	
4 0	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4064:	
43	TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC	60
	TACTCTAGCG GAACGTAAGT TGGAGCTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT	120
50	CGGCATGGGA ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT	180
	ACATTCAAAA CTAGATAGTA AGTAAAAGTG ATTTTGCTTC GCAAACATTT ATTTTGATTA	24Ò
	AGTOTTOGAT CGARTAGTAT TOGTCAGCTO CACATGTCAC CATGOTTOCA COTOGAACOT	300

•	AGGGGGGGCT TCATGCCTTT AGAATG	386
	(2) INFORMATION FOR SEQ ID NO: 4065:	
5 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) Toronogi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4065:	
15	AATTCTTTCG CTACTTGAAT GACAACACTT TGTTTTACGC CTGAAATGGC TTCTTGCCAA	60
	GCAGGTGTAT ATTTTGATTC TGCATCGTCG TATCCTTTTG ATTCTAATTT ATGATCAAAA	120
•	CGACGCACGC CATATTGACT TGCCATTAAG TCAAAAATTG TAGCAATACG GACTTTGTCA	180
20	CCATTTGCTA AAGTGACTTG TCGAGTTGGA ATTGGACGAT TGAATATCCC ATCTCCATCA	240
	CTATCAAAGT ATGGGAATTG AATTGTTTCT AATTCGTATC CACCTTCTGT CATTGATAAT	300
05	GTAGGGTTAA TTTTAGAACC ATCTTCTGTT TCTAGTTTTA AGTTCCACTT CTTACCTTCT	360
25	TCCCAACGTG GACCCATGGT GCCATTANGN ACTACTAAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4066:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4066:	
••	ATTTTGAAAT TGAGAAAACA ACTTATTGAA AAACATAATC TTTACGGTAA CATGGGTTCA	60
40	GGAACAATCG TTATTAAAAT GAAAAACGGT GGGAAATATA CGTTTGAATT ACACAAAAAA	120
	CTGCAGAGCA TCGTATGGCA GACGTCATAG ATGGCACTAA TATTGATAAC ATTGAAGTGA	180
45	ATATAAAATA ATCATGACAT TCTCTAAATA GAAGCTGTCA TCGGAAAAAC AAGAAGTTAA	240
	GTGACAACGG TTTACATGTT GCTTAGCTTC TTTTATTATG CGTAATGATG TAAAAAAGACG	300
	NATATTCATT TGTTTGTAAA AGTGGCATTC TATGTCTTAA AGTGACGNAA CTTCCAATGT	360
50	GCCCAGTGTT TGATTCACAT CAAATCCATT TTTATTTAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4067:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4067:	·
	CCTCATTCCA GGAAGGAATG TATTCTAAGA GTTGAAATAC TCCCGCATTA TTATTAAATT	60
10	ATGGAGCGGA AGATAGGATT TGCACCTATA CCTCGTTCCG GGAAGGAACG TGTTCTAAAA	120
	GTTGAACTAC TCCCGCATAA ACCTGGAGGC GGCAACCGGA TTTGAACCGG TGATAAAGGT	180
•	TTTGCAGACC TCTGCCTTAC CACTTGGCTA TGCCGCCAAT AACTGGGCTA GCTGGATTCG	240
15	AACCAACGAG TGACGGAGTC AAAGTCCGTT GCCTTACCGC TTGGCTATAG CCCATTAATA	300
	ATAAGGGCGG CTGAAGGGGA TCGAACCCTC GAATGTCGGA ACCACAATCC GATGTGTTAA	360
	CCACTTCACC ACAGCCGCCA TGGCAGGGGC AGTAGGAATC	400
20	(2) INFORMATION FOR SEQ ID NO: 4068:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	44 -
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4068:	
	TATCTAATAG TTTTACTTTA AGTCCAGCAT TCACAAAAAG TGCTGCCAGT TGAGCGCCCA	60
	TTGTGCCTGC GCCAAGAACG GTTACTTTAT TAATTGTCAT AGTGATTCCT CCAATTTAGT	120
<i>35</i>	TGAGGATAAG ATAACCATTA AGATAATTGG AATAACGTTG CTATTTTATA AAATTAATTA	180
	AGTATCTTTG ACAGTCATCT TAGCCTCTTA TTTAAGGAAA AAGCTTTATG CTTAAAATAA	240
40	GTCTTTTTTA GTGAAATTAA TGCATCTCAT ATAATTATTT GCTATTTATA CGAAAGCAGA	300
	ATCTCCAGTC AAAGCGCGTC CANTACTAAG GCATTAATTT CATGTGTACC TCGTACGTGT	360
	AAATCGTTTC TGCATCAGTG AGGAAACGTG CAATATCATA	400
45	(2) INFORMATION FOR SEQ ID NO: 4069:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4069:

	ALLEGA CONTROLLEGE CONTROLLEGE AND ALLEGA CONTROLLEGE	400
	AAAAAGAAGA ATTGAAACGC CATATAAAGT AACGTTAAAT AATAACGAAA AAAGGGCACT	120
_	ATTCAAACAA TTAGCGTATG TTGAAGGGTT TGAAAAATAT CTTCATAAAA ACTTCGTTGG	180
5	TGCAAAGCGT TTTTCAATTC nCGGGGTAGA CGCACTTGTA CCGATGTTAC AACGTACTAT	240
	TACGATTGCT GCGAAAGAAG GTATTAAAAA TATACAAATA GGCATGGCTC ACCGTGGGAC	300
10	GTTTAAACGT TTTTAACGCA TGTnCTTAGA AAAAACCGTA CGAAATGATG ATTTCn	356
	(2) INFORMATION FOR SEQ ID NO: 4070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(B) TOPOLOGI: TIMELI	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4070:	
	AAACGTTTAG GGAAAATTAT CACACAGATA CAACAATACA CAGATATTGA TTACCCGATA	60
 25	GCGATTGTCT TTCAAGCATC GTGTTTTAAC GAGTTTGTTG TTAAGGGGCG TTTAAGTAAT	120
20	ATTATTTCAA AATTGCAACA CTATTCAATT GAGGCGAAAC CAGGTATATG TATTATAGGG	180
	GAAGTTGTTG ATTATACTGA AAACACTCCT AAATCATATG ATCCTATGAA GCAATTTTAT	240
30	GTAGTAAGTG GTTCTAAACA TGACGCCCTT ATGCTCTGTG AACATTATAT GACGAAGGTT	300
	ATGGCTGTTG CTAAACCCCA ATGATACATC GAATGGGCAC CATTATCCAn TCGTCGCAAT	360
	AATGGATTAC CCAAGGATGC CATTTANTTA AGCCNGCCAN	400
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4071:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4071:	
45	CCTCTGGAAA CCTTAGTCAA TCGGTGGACG GGATTCTCAC CCGTCTTTCG CTACTCACAC	60
•	CGGCATTCTC ACTTCTAAGC GCTCCACATG TCCTTACGAT CATGCTTCAA CGCCCTTAGA	120
50	ACGCTCTCCT ACCATTGTCC AAAGGNATNC CCACAGCTTC GGTAATATGT TTAGCCCCGG	180
	TACATTTTCG GCGCATGTGC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGGATGG	240
	CTCCTTCTA CCCAACATCC TACTTCTCTC CCAAACGCCA CATCCTTTTC CACTTAACAT	300

	T.	361
•	(2) INFORMATION FOR SEQ ID NO: 4072:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4072:	. •
15	ATGGTGACAA AAACATCGCA TTATTACTAG GTGTCGGCAC AGGCGTTTGT GGTGCTGCTG	60
	CTATTGCCGC AGTCGCTCCA ATATTCAAAT CÁCGTGAAAA GGATACAGCT ATTAGTATCG	120
•	GTATCATCGC ATTGATTGGT ACGATATTTT CACTTATATA TACAGCTATC TACGCTATCT	180
20	TTTCAATGAC GACAAATGTT TATGGCGCTT GGTCTGGTGT TAGTCTTCAT GAAATTGnCA	240
	CACGTTGTCT TAGCTGGTGG CTTTGGTGGT AGTGATGCAC TTAAAATTGC ACTTCTTGGT	300
	AAACTTGGTA GGAGTATTCT TACTGGATTC CCATTAACCA TCGTACTTAA TTTTAAATAT	360
25	GCGGTTnCCG TTnCATCAGG AnTCATCTAG GCAAGGGGTC	400
•	(2) INFORMATION FOR SEQ ID NO: 4073:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4073:	
	GCGACGATCA TTTTAGAATC CGCTTGGGCG ATTAATTCTT TAGAAGTGGA TGAGGCAAAA	60
40	TGTTCATTAT CAGGAACTAA AGCAGGTGCT GATATGAAAG ATGGTCTACG TATTCATGGT	120
	GAAGACATGG GTACACTTTA TACCAAACAC GTTGAATTGG AAAACAAAGG CGTCGACTTT	180
45 ·	TATGAAGGTA ATGAAGTGGA TGAAGCTGAA GAAGAAGCAA AAGCTTGGAT TGATGCAGTT	240
45	GTAAATGATA CTGAACCAGT TGTGAACCGG AACAAGCAAT GGTAGTTACC ANAATTCTTG	300
•	AAGCGATTTA TCCGTCTGCC AAATCCAGGC CAAAGCCATT TACTTTGGAA TAACATCnTA	360
50	CCGGTAAGGG GGCnCATCCT GGACCAAATT TAAAAGTTGG	400
	(2) INFORMATION FOR SEQ ID NO: 4074:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4074:	
	TCTTCCTAAT ACCTTTCCAC GATCTTCAGC TGGCGCCTCT GCACTCGCAA ACGCACTTGA	60
10	TGCATCAACA ACACCACCAA ATAGTCCCTG CAATAACCTC ACAAGTACAA ACTGTAATGG	120
•	TGTCGTACAC AATGCCATTA AAAATAAGCA TACCGCCAAA CCAAGTAACG CTCTTAACAC	180
	CATCCATTTT CGGCTGATCT TATCACCTAG CTTCCCCCAT ATCGGCGGAG TTATGCATCG	240
15	TCGTTACAGC TGGAGCAGCA ATCGCTATAC CACTCCACAN CTGTATTTCT ACGGACTGAT	300
	AGGATTTTGT AGTGATGHCC ATGATGAAAT GGGCAATAAT GGGCACAAGT ACTGTTCAGT	360
00	CCAGCCAATC GTTATGAAAC TGGACTGGGG CCATMAAATG	400
20	(2) INFORMATION FOR SEQ ID NO: 4075:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 380 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4075:	
	GGTTCAGAAC GTCGTATGNA GTTCGNTCCC TATCCGTCGT GGGCGTAGGA AATTTGAGAG	60
	GAGCTGTCCT TAGTACGAGA GGACCGGGAT GGACATACCT CTGGTGTACC AGTTGTCGTG	120
35	CCAACGCATA GCTGGGTAGC TATGTGTGGA CGGGATAAGT GCTGAAACTC TAAGCATGAA	180
	GCCCCCCTCA AGATGAGATT TCCCAACTTC GGTTATAAGA TCCCTCAAAG ATGATGAGGT	240
	TAATAGGTTT CGAGGTGGAA GCATGGTGAC ATRTGGAGCT GACGAATACT AATCGATCGA	300
40	AGACTTAATC AAAATAAATG TTTTGCGACA AATCCACTTT TACTTACTAT CTAGTTTGAA	360
	TGATAAATTA CATCCATATG	380
45	(2) INFORMATION FOR SEQ ID NO: 4076:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4076:

	TTTGCCTAAT ACTCAGCCTT ACTGCTTAGA CGTGCAATCC AATCGCACGC TTCGCCTATC	120
	CTACTGCGTC CCCCCATCGA TTAAAACGAT TATAGGTGGT ACAGGAATAT CAACCTGTTA	180
5	TCCATCGCCT ACGCCTGTCG GCCTCAGCTT AGGACCCGAC TAACCCAGAG CGGACGAGCC	240
	TTCCTCTGGA AACCTTAGTC AATCGGTGGA CGGGATTCTC ANCCGTCTTT CGCTACTCAC	300
10	ANCGGCATTC TCACTTCTAA GCGGTCCACA TGTCTTACGA TCATGCTTNA AGGCCTTAGG	360
	AAGGTTCCTA CCATGGTCAA	380
	(2) INFORMATION FOR SEQ ID NO: 4077:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4077:	
	GCAGGTCTGA CTCTAGAGGA THCCCACGCG CGCAAGATTT AAATCGAAGA AACCAGCAAC	60
25	AGATTCCTCA AAATAGCGCG GCGAACAACG AAACATCAAA TAGTGCACCT GCAGCTGGTA	120
	ATGGTGTAGC ATCAACGCCA CCAAGTGCAC CAAGTGGCGA TACTGCACCA AATAATAATG	180
30	TTACGCAAAA TACCGCACCA AATAGTAATA ATGCGCCTGT ATCGACTACA CCACAAAGTA	240
	CAAGGCGGGA ANAAAGATGG TCAAAGTTTT GTAGATATAA CAACAACACA AGTCAGCACA	300
	GCTAACGAGA ACACACAAA CATTACAGAT AAAGATGTTA AATCAATGGA AGCGGCATTA	360
<i>35</i>	ACGGGCTCTT	370
	(2) INFORMATION FOR SEQ ID NO: 4078:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4078:	
	AAACATTTTA TCAAATGGCA GAAGGACATG TGCCAAGACC ACCAGCGATG GTTGAAACAT	60
50	TGACTTATAT TAAAGAGTTT ATGAACCAAG TTGAGTCGCA TAGCTAGTAT GAAACGTGGT	120
	GTGCGCATGG GAACTATCAA GCTTTGAAGA TGTGGTACTA CATGCGTTGG AATTAGGGAT	180
	CGGTACTTTA TATGAAGACG TGCTGCTTCC ATTAAATGAG TGATGCGATT TTGGCATGAA	240
<i>55</i>		

	TAAGAGGGGC CAACCATTGT TAGANATAAC AACGGTTGGC TCTTTAANTG T	351
	(2) INFORMATION FOR SEQ ID NO: 4079:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4079:	
15	TTGAAGTAAC TAAATTAATA TTATGTTGTT CAATTAAAAG CTTCATACAA ACCTAATCTA	60
	TTTGCACTCC ACCGCTAACA CCGAACACTT GTCCGGTTGT ATAACTTGAT TCTTCTGACG	120
	CTAATAGCAC ATAAGTTCCA CATAACTCAA CAGGTTGACC TGCACGACCT AAAGGTGTTT	180
20	TTTGACCAAA TGTTGGGATT TTACTTTGAG GTTGTCCACC AGAAATTTGT AATGGTGACC	240
	AGAATGGACC AGGCGCTACA CAGTTCACTC TAATTCCTTT TGGTCCTAAT TCTTCTGAAA	300
25	AACTTTTAGT TAATGAAATA ATTGCTGCCT TTTGAAGGGG CATAATCCAT GAAGAATANG	360
20	GCCAGGGANT AAAACCCTGG ACNAAAGAAG CCGTGGAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 4080:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4080:	
40	TCGTTGGACA CAATCTGAAA AATAAATAGA TATAAATTCG CGAGATATAT TCGTATTTAT	60
	AGTAAAATTA AATAAAGAGA TTATATAACA CGAGGAGTAG TAAGTATGAA ATTTGAGAAA	120
	TATATAGATC ACACTTTATT GAAGCCTGAG TCAACACGTA CGCAAATCGA TCAAATCATC	180
45	GATGAAGCGA AACATTACAA TTTTAAATCT GTATGTGTGA ATCCAACACA TGTTAAATAT	240
	GCAGCAGAGC GACTAGCTGA TTCAGAGGTG CTCGTTTGTA CGGTAATAGG ATTCCCATTA	300
	GGTGCGTCGA CAACTGGCAA CGAAAGCATT TGAAACAGAA GATGCAATTC AAAATGGTGC	360
50	AGATGAATTG GACATGGTCA TCCACATCGG CGCATTAAAA	400
	(2) INFORMATION FOR SEQ ID NO: 4081:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		•
5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4081:		
	CGACTAGTGA GCTATTACGC ACTCTTTAAA TGATGGCTGC TTCTAAGCCA	ACATCCTAGT	60
10	TGTCTGGGCA ACGCACATCC TTTTCCACTT AACATATATT TTGGGACCTT	AGCTGGTGGT	120
	CTGGGCTGTT TCCCTncncG AACACGGACC TTATCACCCA TGTTCTGACT	CCCAAGTTAA	180
	ATTAATTGGC ATTCGGAGTT TGTCTGAATT CGGTAACCCG AGAGGGACCC	CTCGTACCAA	240
15	ACAGTGCTCT ACCTCCAATA ATCATCACTT GGAGGCTAGC CCTAAAGCTA	TTTACGGAGA	300
	GAACCAGCTA TCTCCAGGTT CGATTGGAAT TTCTCCGCNA CCCTCAGTTC	ATCCGCTCA	359
20	(2) INFORMATION FOR SEQ ID NO: 4082:		
20	(i) SEQUENCE CHARACTERISTICS:	•	
•	(A) LENGTH: 379 base pairs (B) TYPE: nucleic acid		
25	(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4082:		
30	TTTGACATTT AGTGTAAGCG THTTACAAAT AAAGCGTGTT GTTTTTGAAT	TAAATGCATT	60
	TCACATTAGT ATTCATATTA TTTTTAGGAG GAATTTATAT GACATTTGAA	AAAGAAACGG	120
	TCTTAAAAAC ATTATTTCCT GAAGATGTAC TTAGTATTGC TAAAGGTTTA	ACAGACGGTG	180
35	AAGTCGAATT TTTACAACAA GTAGATTCAT TGGCTAGAAA GTAAGTACCG	TGGAAAATAT	240
	TAATCAACAT TGGATAGACG CTACTGTACC CGAGGACTAT TTTAAAGATC	TGGGGAGAAT	300
40	TAAATTATTT TAACAATCCA TTACTTTAÇA AGGGATCGTC CAAACGCCAA	Anggcctagt	360
40 ,	CCAACTATTT nCAGTTTTT	• •	379
	(2) INFORMATION FOR SEQ ID NO: 4083:		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4083:	•	
	TTGAAACAGC CAGAGGTGTT TTATACCCAG GTGTTTCAGA TATGTATGAT	GCGAAACAAT	. 60
55			

	TTGGAACATA TGGTCCTAAC AAAGATGTTG TAGGCATATC TACTCGTCTT	ATTAGAGTGA	180
	CATATGATAA TAGACAAACA GAAGATTTAA CTATTTTATC TAAAGTTAAA	CCTGACCCAC	240
5	CTAGAATTGA CGCAAACTCT GTGACATATA AAGCAGGTCT TACAAACCAA	GAAATTAAAG	300
	TTAATAACGT ATTAATTAAC TCGTCCGTGA AATTATTTAA GCCGATAATA	CACCATTAAA	360
٠,	TGTmCnCAAT ATTACCCmGG GTAGCGGGTT TTAGTTCCGG		400
10	(2) INFORMATION FOR SEQ ID NO: 4084:		
15 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4084:		
	AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCChAGGCAT	CCACCGTGCG	60
٠	CCCTTAATAA CTTAATCTAT GTTTCCATCC TACAGGAAAC GCGTTAGTAA	TCTTGTGAGT	120
2Š	GTTCTTTCGA ACATAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA	CTCTTTATTC	180
	ACTCGGTTTT GCTTGGTAAA ATCTATATTT TACTTACTTA TCTAGTTTTC	AATGTACAAT	240
	TTCTTTTTAG TCAAGCGCTC GCATAAGCAA TATCACTTTA ACCAAAAAAT	ATTTGAATGT	300
30	TAAATAAACA TTCAAAACTG AATACAATAT GTCACATTAT TCCGCCATCT	nCTGAAGAAG	360
	ATGTTNCCGA ATATNATCCT TAGAAAGGAG GTGGATCCCA		400
35	(2) INFORMATION FOR SEQ ID NO: 4085: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4085:	4	
45	TTACTTATCT AGTTTTCAAT GTACAAATAA TGGTGGAGAC TAGCGGGATC	GAACCGCTGA	60
	CCTCCTGCGT GCAAAGCAGG CGCTCTCCCA GCTGAGCTAA GCCCCCAAAT	•	120
	TTAATGGTGG GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG		180
50	GAACCAGCTG GAGCTATAGG CCCATTAATT TGGAATGAAC AAACATTCAA		240
	CAATATGTCA CGTTATTCCG CATCTTCTGG AAGAAGATGT TTCCGAATAD		300

•	AAGCATTTGT TCCCACCTTC GACGGCTGAG CTCCTAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 4086:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4086:	-
15	GTCATTGGAA ACTGGAGNAC TTGAGTGCAG AAGAGGAAAG TGGAATTCCA TGTGTAGCGG	60
	TGAAATGCGC AGAGATATGG AGGAACACCA GTGGCGAAGC GACTTTCTGG TCTGTAACTG	120
	ACGCTGATGT GCGAAACGTG GGGATCAAAC AGGATTAGAT ACCCTGGTAG TCCACGCCGT	180
20	AAACGATGAG TGCTAAGTGT TAGGGGGTTT CCGCCCCTTA GTGCTGCAGC TAACGCATTA	240
	AGCACTCCGC CTGGGGAGTA CGACCGCAAG TTGnAAACTC CAAAGGAATT GACGGGCGCA	300
	CAAGCGTGGG AGCATGTGGT TTAATTCGAA CCAACGNATA GAACCTTACC AAATCTTGGA	360
25	c	361
	(2) INFORMATION FOR SEQ ID NO: 4087:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4087:	
	GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTTATGAG CCGTTAGCTC TAACCAACTG	60
40	AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TGGCGGTGGA GGGGATCGAA	120
	CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC CGCCTTATAT	180
	AGTTTGTAAA TAATATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC TGCGTGCAAA	240
45	GCAGNCGCTC TCCCAGCTGA GCTAAAGCCC CCATAAATAA TTACAGTATA TCGGGAAGAC	300
	AGGATTCGAA CCTGCGACCC CTTTCCCAAA CCAAGTGCTT TTACCAAGTT GGTACTTCCn	360
	GTATAATTTA ACGGGCCCGA TAGGAGTTCG GAACCCTTAA	400
50	(2) INFORMATION FOR SEQ ID NO: 4088:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4088:	
	AGCTATTATT TTTGACAGAT TCCATATCGT TCAACATTTA AATAGAGAAC TTAATAAGTA	6
10	TCGTGTACAA GTTATGAATG AATACCGTAA TAAAAAAGGA CCTGATTATA CAATTTTTAA	120
	GAATAACTGG AAAGTCCTAT TGATGGATAC TAGTAAAACC ATATTTAGTA AATACAGATG	180
	GAATAAATCT TTTAAGGCTT ATAAACGCTC ATCTGACATT GTAGGAATTC ATGCTTTCAA	240
15	AAGACGATAT ACTACGACAC TCCTACGAAC TTGTCCCAAG GGATTACGGA AAAGGCCCTA	300
	AGGGTTATGT TAATTGGCCC TAAATTTATT AAATGCGTTT GAAATTCAGT TAGTTAAAAA	360
	GTCTGTGAGT GANGGGTGTA TGGGAAAGTG GTTAAAATAT	400
20	(2) INFORMATION FOR SEQ ID NO: 4089:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4089:	
	ATCGTTTTAG ATAAGACGGG TACATTACAA ATGGTCGTCC AGTCGTGACA GATTATCATG	60
	GTGACAATCA AACGCTACAA CTACTTGCTA CTGCTGAAAA AGATTCTGAA CACCCATTGG	120
35	CAGAAGCCAT TGTCAATTAT GCAAAAGAAA AGCAATTAAT ATTAACTGAG ACAACAACAT	180
-	TTAAAGCAGT ACCTGGGCCA TGGTATTGAA GCAACGATTG GATCATCACC ATATATTGGT	240
	TGGTAACCGT GAAATTAATG GCTGACAATG GATATTAGCT TGCCTAAGCA TATTTnnGGA	300
40	TGGATTTAAC ACATTATGAA CGAGATGGTA AAACTGCTAG CTCATTGCTG TTGAATTATT	.360
	nCATAACGGT ATCA	374
	(2) INFORMATION FOR SEQ ID NO: 4090:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(b) Islandi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4090:	

	TTAATAACGT ATTAAATAAC TCGTCAGTAA AATTATTTAA AGCAGATAAT ACACCATTAA	120
	ATGTCACAAA TATTACTCAT GGTAGCTGTT TTTGTTCGGT TGTGACAGTA AGTGACGCGT	180
<i>5</i>	TACCAAATGG CGGAGTTAAA GCAAAATCTT CAATTTCAAT GAACAATGTG ACGTATACGA	240
:	CGCAAGACGA ACATGGTCAA GTTGTTACAG TAACAAGAAA TGAATCTGTT GATTCAAATG	300
	ACAGTGCACC AGTAACAGTG ACACCACANT TACAAGCAAC TACTGAAGGC GCTGTATTTA	360
10	TTAAGTT	367
	(2) INFORMATION FOR SEQ ID NO: 4091:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4091:	
	TAATATTATA TTGCTAGTAG TTGACTGAAT GAAAATGCGC TTGCAACAAG CTTTTTTCAA	60
25	CTCTAGTCAG GGGCCCCAAC ACAGAGAATT TCGAAAAGAA ATTCTACAGG CAATGCGAGT	120
,	TGGGGTGTGG GCCCCAACAC AGAGAATTTC GAAAAGAAAT TCTACAGGCA ATGCGAGTTG	180
	GGGTGTGGGC CCCAACACAG AGAATTTCGA AAAGAAATTC TACAGGGCAA TGCGAGTTGG	240
30	GGTGTGGGCC CCAACATGAG AGAAATTGGA TTCCCAATTT CTGACAGACA ATGCAAGTTG	
	GCGGGGGCCC CAACACAGAA GCTGGACGAA AATCCTTGAA CGAATGAATG TGGCAATTGG	300
	CGGGGGCCCA ACACAGAAGN TGACGAAAAT NCTNGAACCA	360
3 5	(2) INFORMATION FOR SEQ ID NO: 4092:	400
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4092:	
	GCATTTCTCA TAACACAAGG AATTTCAACA AGTCCGGCTA CTGGATCACA AACTAAACCT	60
	AATAAATTAC TTATCGCTAA TGCCATAGCG TGCCCGGATG CTTCTGGTGA TCCTCCGAAT	120
50	ATAGCTACTG CTGCAGCTGC GGCCATTGCA GATGCTGAAC CAACTTCAGC TTGGCAGCCA	180
	CCTGTTGCAC CAGCTACACT TGCATTGTTT GCTACGACAC GCCCAAACAA TGCTGAAGTG	240

	CCGGGAATGG TANCCGAGGG AANCAGCTGT GGGCGTTGCA CAAATAATAC CCCATCGCAG	360
	CATTTGACCT TCATTTGGTT GCAATGGGAA CCTTTGACTG	400
5	(2) INFORMATION FOR SEQ ID NO: 4093:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4093:	
•	TGACTTACGT ACTGTTCAAC CAATCGATGT TGACACAATT GTAGCTTCAG TTGAAAAAAC	60
	TGGTCGTGCA GTTGTAGTTC AAGAAGCACA ACGTCAAGCT GGTGTTGGTG CAGCAGTTGT	120
20	AGCTGAATTA AGTGAACGTG CAATCCTTTC ATTAGAAGCA CCTATTGGAA GAGTTGCAGC	180
	AGCAGATACA ATTIATCCAT TCACTCAAGC TGAAAATGTT TGGTTACCAA ACAAAAATGA	240
25	CATCATCGAA AAAGCAAAAG AAACTTTAGA ATTTTAATAC ATTTTAAAAG TTAACGAATT	300
25	AGCGTATTTT AGTCTCATTG ATTAANATGA AATGNGNTAA TTTACGGAAT CCTA	354
	(2) INFORMATION FOR SEQ ID NO: 4094:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i> %		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4094:	• *
•	CGTTAACATG AAGTTACGTT CTTTTATAAA AAGATTTAAA CGCGTTATTA ATCTTGTGAG	60
40	TGTTCTTTCG AACACTAGCG ATTATTTCTT ATGAATTCAA GCTTATTTAA AACTCTTTAT	120
	TCACTCGGTT TTGCTTGGTA AAATCTATAT nTTACTTACT TATCNAGTTT TCAATGTACA	180
45 ·	AATAATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC TGCGTGCAAA GCAGGCGCTC	240
	TCCCAGCTGA GCTAAGCCCC CAAATAGGNA TTAAATTAAT GGTGGGCCTA AGTGGACTCG	300
	AACCACCGAC CTCACGCTTA TCAGGCGTGC GCTCTAACCA GCTGAGCTAT A	351
50	(2) INFORMATION FOR SEQ ID NO: 4095:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4095:

	ATTGTTGCGA CTGGCACACC CGAAGATATT GCTCAGACAA AGTCATCATA TACAGGAAAG	60
	TATTTAAAAG AAGTACTTGA ACGAGATAAA CAAAATACTG AAGATAAATA AGATTAAAAG	120
	AAGTGAAGGA TGTTATAATT TATCCTTCGC TTCTTTTTAT TAATTTAGTA ATGAATAGTA	180
0	GAAAGAAAAG ATGCGTAAAA AGAATTATGT TAAGATAGGG TCAATCTAGA GTAGTTAAAC	240
٠	ATAAATCGAA CTnGGAGTGG GACAGAAATG ATAAAGAATC ACTAATGATT TATTATGTAG	300
	TGGTTCTTTG TCATTAGCCA CAGCTATTTG TGTACTTAAA ANTAGGTATG CCAGTGTGCA	360
5	CTCCTTGAGA GGAAATACTn ATTT	384
	(2) INFORMATION FOR SEQ ID NO: 4096:	
o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 ·		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4096:	
	CTGCATCTTC ACAGGTACTA TGATTTCACC GAGTCTCTCG TTGAGACAGT GCCCAAATCG	60
o	TTACGCCTTT CGTGCGGGTC GGAACTTACC CGACAAGGAA TTTCGCTACC TTAGGACCGT	120
	TATAGTTACG GCCGCCGTTT ACTGGGGCTT CGATTCGTAG CTTCGCAGAA AGAGCCGACT	180
	CCTCTTGAAC CTTCCAGCAC CGGGCAGGCG TCACCCTGAT GACATCACCT TACGGTTTAG	240
5	CAGAGACCTG TGTTTTTGAT AAACAGTCGC TTGGGCCTAT TCACTGCGGC TCTTCTGGGC	300
	GTTAACCCTn AAAGAGCACC CCTTCTCCCG AAATTNACGG GGTCATTTTG GCCGAGTTCC	360
o ₋	TTAACGAGNA TTCGCTCGGT GCAACTT (2) INFORMATION FOR SEQ ID NO: 4097:	387
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4097:	
	CCACTCACAT TCACACATCG ATTCACACAC CGCACTCAGC ACTCAGNATA CCGCATTCAG	60

AGGGATTCGG ACTCAGACAG TGATTCAGAT TCAGACTCAG ATAGCGACTC AGATTCTGAC AGGGATTCAG ACTCAGACAG CGACTCAGAC TCAGACAGTG ATTCAGATTC AGACAGCGAC TCAGACTCAG ATAGCGACTC AGACTCAGAT AGCGACTCAG ATTCAGATTCAG TCAGACACAG ACTCAGATTC AGATAGCGAT TCAGATTCAG TCAGACACAG ACTCAGATTC AGATAGCGAT TCAGATTCAG (2) INFORMATION FOR SEQ ID NO: 4098: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTTGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AAATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAAAGTTAA GATTAGGTAA AAATTATTTAA CAATATATGT 30 TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCT AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTCCGGTGA GAACCAGCTA TCTCCAGGTT CGATTGGAAT TTCTCCGCTA CCCTCAGTTC ATCCGCTCCA TATCACGTA ATCGGTTCCG		TCAGATAGCG ACTCAGATTC GGATAGCGAC TCAGACTCAG ATAGCGATTC AGATTCAGAT	180
TCAGATTCAG ATHOCGACTC AGACTCAGAT AGCGACTCAG ATTCAGATAG CGATTCGGAC TCAGACAACG ACTCAGATTC AGATAGCGAT TCAGATTCAG (2) INFORMATION FOR SEQ ID NO: 4098: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTTGA TGTAAATTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA GCCCGTCTCC CATGATTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTATGTA AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAA ATGGTGGCAA (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTCC ACTTAACATA TATTTTGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG TACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGGT ATTTCGGAAG GAACCAGCTA TCTCCCGAGT TAATCATCAC TTGAGGCTAG CCCTAAAGGT ATTTCGGAAG GAACCAGCTA TCTCCCGAGT TAATCATCAC TTGAGGCTAG CCCTAAAGGT ATTTCGGAAG GAACCAGCTA TCTCCCGAGT		AGCGATTCGG ACTCAGACAG TGATTCAGAT TCAGACTCAG ATAGCGACTC AGATTCTGAC	240
TCAGACAACG ACTCAGATTC AGATAGCGAT TCAGATTCAG (2) INFORMATION FOR SEQ ID NO: 4098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTGA TGTAAATTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTATGTA AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAAG GAACCAGCTA TCTCCCGAGT TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAAG GAACCAGCTA TCTCCCGAGT	5	AGCGATTCAG ACTCAGACAG CGACTCAGAC TCAGACAGTG ATTCAGATTC AGACAGCGAC	300
(2) INFORMATION FOR SEQ ID NO: 4098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTITGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTIGA TGTAAATTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA GCCCGTCTCC CATGATTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTATGTA AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGTGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCCAGGT		TCAGATTCAG ATMGCGACTC AGACTCAGAT AGCGACTCAG ATTCAGATAG CGATTCGGAC	360
(2) INFORMATION FOR SEQ ID NO: 4098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTTGA TGTAAATTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT 30 TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAA ATGGGGGCAA (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA	·	TCAGACAACG ACTCAGATTC AGATAGCGAT TCAGATTCAG	400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098: TCGTACCTGA ACTACTITGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTIGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT GGCCAGTTTG CCAAGCACTG GTTTGACCAA ATGGNGGCAA (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA 50 TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCCAGGTT	10	(2) INFORMATION FOR SEQ ID NO: 4098:	
TCGTACCTGA ACTACTTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTTGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT 30 TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	15	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TCGTACCTGA ACTACTTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA CTGGATTTGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT 30 TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT			
CTGGATTTGA TGTAAATTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA 25 GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT 30 TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098:	
GCCCGTCTCC CATGATTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTCAG TGGTGGAAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		TCGTACCTGA ACTACTTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA	60
AAATGACTIC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTIT ATATTTAGAT TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		CTGGATTTGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA	120
TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	25	GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAAGGAGA	180
TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTCAG TGGTGGNAAT GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	•	AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT	240
GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN (2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT	300
(2) INFORMATION FOR SEQ ID NO: 4099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: 45 ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	30	TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		GGCCAGTTTG CCAAGCACTG GTTTGACCAn ATGGnGGCAn	400
(A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099: ATCCTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG naccTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4099:	
ATCCTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG nACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	40	(A) LENGTH: 350 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
ATCCTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA CCGAACACGG nACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT			
CCGAACACGG nACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099:	•
AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	45 ,	ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA	60
TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG	.120
TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT		AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA	180
CGATTGGAAT TTCTCCGCTA CCCTCAGTTC ATCCGCTCAC TTTCAACGTA ATCGGTTCGG	50	TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	240
		CGATTGGAAT TTCTCCGCTA CCCTCAGTTC ATCCGCTCAC TTTCAACGTA ATCGGTTCGG	300

	(2) INFORMATION FOR SEQ ID NO: 4100:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4100:	
	TAGAACTIGT TGCCAAACAG CATGCTTAAT TTCAATATCT TCTTTGACTG CTTCGATATA	60
15	TAAATCAGCA TCATCATTTA CCAAGTCATC ATCAAAATTA CCATATGTTA AATGACTCGC	120
	TAGATTTAAG TCGAATAGTA GCGGCCGTTT CTTATCTGTA ATTTTATCGT AAGATTTTTT	180
	CGCAATGAGA TITGGATCGT TITTGTCCAC TACAATATCT AATAGTTTTA CTTTAAGTCC	240
20 .	AGCATTCACA AAAAGTGCTG CCAGTTGGAG CGCCCATTGT GCCTGCGCCA AGAACGGnTA	300
	CTTTATTAAT TGGTCATAGT GANTCCNCCC ATTTAGTTGA GGGATAAGAT AACCATT	357
	(2) INFORMATION FOR SEQ ID NO: 4101:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4101:	
<i>35</i>	TAACTCAGGC TGGGGACATA AATCAATATT CTATGCTCTA CGAATTATAT TGGCAGTAGT	60
	TGACTGGnCG AAAATGCGCT TGTAACAAGC TTTTTTCAAT TCTAGTCAGG GGCCCCAACA	120
	CAGAGAATTT CGAAAAGAAA TTCTACAGGC AATGCGAGTT GGGGTGAGGG CCCCAACACA	180
40	GAAGCTGACG AAAAGTCAGC TTACAATAAT GTGCAAGTTG GGGATGGGCC CCAACAAAGA	240
•	GAAATTGGAT TCCCAATTTC TACAGACAAT GCAAGTNGGG GTGGGACGAC GNGATAAATT	300
	TTGCGAAAAT ATCATTTCTG TCCCACTCCC ATCAAAAGAA TGACAT	346
45	(2) INFORMATION FOR SEQ ID NO: 4102:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATGATGAAA ATCAATTAGA CAAAGCAGGT AAATTAAGTG ATGTCGCGTC ATTTAAGGAA	6
	GCGATTCACA ATCGAGAATC ACAAAGTACA ACTGGTATCG GCGAAGGTAT TGCCATTCCA	12
5	CATGCCAAAG TGGCCGCAGT TAAGTCACCA GCTATTGCGT TTGGTAAATC TAAAGCAGGC	18
	GTAGATTATC AAAGTTTGGG ATATGCAACC AGCACACTTA TTCTTTATGA TTGCAGCGCC	24
	AGAAGGTGGC CCCAAACACA ITCTAGATGC TTTACTAAAG TTGnCTGGTA TTTTAATGGG	30
10	ATGAAAATGT ACGTGAGGAA ATTNTTACAT GGCTTCATCA NCTGAAGAAG TACTAGCGAT	36
	CAT	363
15	(2) INFORMATION FOR SEQ ID NO: 4103:	٠
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
•		
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4103:	
25	GAGTGCAGCG GATAACATTA AACCGACGAC ANCTITITTA TGTTCAGGTT TAGCTGTGTG	60
•	ATAAATTGCA AGTGCGGCAC CACATAAGCC GAACATCATC GTAATAAAAC GGCCTGACAT	120
30	AAAGCGTGAC ACACCTGAAT AATACTTCGT CACATCTGGa TCACCAAGTT GAGCAAAGAA	180
	GATGTTCTGC GTACCTTGAA CTAAGTGCCC TTTGACTTCT AAAGTACCAC CAAGTGCCGT	240
	CTGCCAAAAC GGTAAGTAAA AAATATGGTG TAAACCGAGT GGACCTAACA ATCTTAAGAT	300
35	GAAGCCATAA rCAAAAGTAC CEGTTGGCAC CTGTTLTCGT TACAAATCCA CCAACATGLK	360
	ARTGCCGGTT TGTATGGTTG GCCCAANTGA NAACATCATA	400
	(2) INFORMATION FOR SEQ ID NO: 4104:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4104:	
	AATTGAGAAT TTGTCGCTAT TTGTAAATTG TATCCTGGCT TAAGTTGGCC AAAGTGTCTT	.60
50	ATTTTTTAA AGTATTTAAA AGTAAAATTA CATGTTAATA CGTATATTAA TTGGCGAGAC	120
	TCCTGAGGGA GCAGTGCCAG TCGAAGCAGG GGCCCCAACA CAGAAGCTGA CATATAGTCA	180
55		

.2826

	CAAAAATTCT ATTTATAGAA TTTTACAGTA ATGTGCCAGA TGGGCATAGC GACCCATTCA	300
	ATACGANTAT nTGANTAAAT AGAGAACAGC AGTAAGATAT TTTCTAATTG AAAATTAT	358
5	(2) INFORMATION FOR SEQ ID NO: 4105:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4105:	
	GACGCGTTAC CAAATGGCGG AATTAAAGCA AAATCTTCAA TTTCAATGAA CAATGTGACG	60
,	TATACGACGC AAGACGAACA TGGTCAAGTT GTTACAGTAA CAAGAAATGA ATCTGTTGAT	120
20	TCAAATGACA GTGCAACAGT AACAGTGACA CCACAATTAC AAGCAACTAC TGAAGGCGCT	. 180
	GTATTTATTA AAGGTGGCGA CGGTTTTGAT TTCGGACACG TGGAAAGATT TATTCAAAAC	240
	CCGCCACATG GGGCAACGGT TGCATGGCAT GATAGTCCAG ATACATGGAA GGARTACAGT	300
25	CGGTAACACT TCATAAAACT GCGGTTTGTn ACCATTACCT AATNGTCAAG GGTACGGCGT	360
	TAATGTTTGA AGGTTCCCGT TCCAAGGTTT TTTCCCGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 4106:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4106:	
40	GAAGTTAAGC TCCTTAGCGT CGATGGTAGT CGAACTTACG TnCCGCTAGA GTAGAACGTn	60
•	TGCCAGGCAG TTTTTTAATC AAATTTTGGT TAAAAAATAA AATGGACAAG ATAAAAAAAG	120
	TTATTGACTT AAATGTTAAT AAAATGTATA ATTAATTCTT GTCGGTAAGA AAAATGAACA	180
45	TTGAAAACTG AATGACAATA TGTCAACGTT AATTCCAAAA AACGTAACTA TAAGTTACAA	240
	ACATTATTTA GTATTTATGA GCTAATCAAA CATCATAATT TTTCATGGGA GAGTTTGGAT	300
50	CCTGGGCTCA GGATGGAACG CTGGGCGGCG TGCCCTAATA CATGGCAAGT CnGAGCGAAC	360
- <i>•</i>	GGGACGAGAA GGCTTTGCTT CTCCTGGATG TTAACCGGCn	400
	(2) INFORMATION FOR SEQ ID NO: 4107:	

	·	
	(A) LENGTH: 343 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4107:	
10	GATTGTGCCA CGCTTTTAAC CGAAATACAA CATCATCATT GACAATTTGT TGATTTGAAA	6
	AATCTTTCTC TTCAATAAAT ACATACGTTT GCATCGTATG TGCTTTCATG TAACTCAATA	12
	TTGGTTTTAA ATGCATTTCA GGAATTAAAT AATGTTTACT AGAACCTGCT GTCGCTACAA	18
15	GTCCTATTAC CTTGTCACGA AACGCATTGA CTGGAAGTAG ATCAAACACA TTTnnCAAAG	24
	CACCAGGGAT GGAAAGCTTG AAAAATTGGA AAACCAATAA AAATCACATC AGCCTGCATT	30
	AACGACGTCG TTAATTTATA TACATCTCCT GTAGTATCTA GnT	34
20	(2) INFORMATION FOR SEQ ID NO: 4108:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4108:	
	ATACAAAACA CCAGGTCGTG AAGATAAACA ATCACAAGCG GCTACTGCTT CAGCAACTGA	60
:	ATTACCATAT GCAGTATTAG AAGCTATGGG TGGCAAAGCA AACATTAAAC ATTTAGACGC	120
35	TTGTATCACA CGTCTACGGT TGAAGTTAAC GACAAATCTA AAGTTGATGT TCCTGGTTTG	180
	Anagatttag gcgcatctgg tgtattagaa gtcggcaata atatgcaagc aatttttggt	240
40	CCTAAATCTG ACCAAATCAA ACATGAAATG CAACAGATTA TGAMTGGTCA AGTAGTAGAA	300
40	AATCCTACTA CTATGGAAGA CGATHAAGAC GAAACTGTTG TGGGTTGGCA G	35:
	(2) INFORMATION FOR SEQ ID NO: 4109:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4109:	
	CCTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACAT	60
55		

GCGGCACCAC GGAATAATAC ACCATGTOGG AGTACGACTG CHATGGTACC TTCATCGTCT AAGGTAATGT ACCCTGTGGT TGAATAAAGG CAAAATCTGC TTTGGGATTT TGGCGCAACT TTGCCCGTAA CCACTGAATC GTTCATCATT TTCAAATTTT TGAATCHGCT GGTCCATTCG CACTGTA (2) INFORMATION FOR SEQ ID NO: 4110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRAMDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTOGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCCAAAACCA AACACCATTT GCCATAATGAA AATCCTGATT TGGAAAAGGA TCCTTCCAAAA ATCCAANATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRAMDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRAMDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRAMDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: AGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAATAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAATAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAATAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGAT ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACCAA TGTACACTCA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACCAA TGTACACTCAA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACCAA TGTACACTCAA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACAAG TGAACACTCAA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACAAG TGAACACTCAA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACAAG TGAACATCAA			
TIGCCCGTAA CCACTGAATC GTTCATCATT TTCAAATCTT TGGACTTT TGGCGCAACT TTGCCCGTAA CCACTGAATC GTTCATCATT TTCAAATCTT TGAATCAGC GGTCCATTCG CACTGTA (2) INFORMATION FOR SEQ ID NO: 4110: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: mucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 12: CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTTGTT GCAGAAGAAG CTAAAGATGA AGGTATAAGA TCAAAATTA AATAAAATAG TTTGTTTTTT GCAGAAGAA CCTAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTTCCAAA ATCCAATATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAATCA AGGTAATTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAAATCA AGTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAAATCA AGTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTTAAGTTT TTTGGAAATA GTAAACGTAA AGTTGATCTC ACTGGGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTTATACCAA TGTAACATCAA CCTTTACAAA AGGTAAATCA AGTTAAGTTT TTTGGAAATA GTAAACGTTGA AGTTGATCTC ACTGGGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAA TGAACACTCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAG TGAACACTCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTAATACAAG TGAACACTCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGGTTTAA CTTAATACAAG TGAACACTCAA CCTTTACAAA AGGTAATCA CTGTTTAGCT GAAGGTTTAA CTTAATACAAG TGAACACTCAA		CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGNAT CACACCTTCT	180
TIGCCGTAA CCACTGAATC GTTCATCATT TTCAAATTTT TGAATCAGCT GGTCCATTCG TIGCCGTAA (2) INFORMATION FOR SEQ ID NO: 4110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGCAAGAG CTAAAGATGA AGGTATAGAT TCAAAATGAA CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTTCCAAA ATCCAAAATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) TTGGAAGAGAA ACTTAAATTAA TAGGCTGTTA TCTTTATGCC AGTCCACACA CCTTTACAAA AGGTAAAATCA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAAATCA AGGTAATACA TGTGCAAGTG CAGGTAATCA TGCTCAACAC CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGCTTTAA CTTTATACCAA TGTAACATCAA ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACCAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGCTTTAA CTTAATCAAA TGTAACATCAA CCTTTACAAA AGGTAAATCA CTGTTTAGCT GAAGCTTTAA CTTAATCAAA T		GCGGCACCAC GGAATAATAC ACCATGTGGG AGTACGACTG CNATGGTACC TTCATCGTCT	240
CACTGTA (2) INFORMATION FOR SEQ ID NO: 4110: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 12: CAAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAACCA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTMCCAAA ATCCAMMATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTATACAAG TGAACATCAA 246	5	AAGGTAATGT ACCCTGTGGT TGAATAAAGG CAAAATCTGC TTTGGGATTT TGGCGCAACT	300
(2) INFORMATION FOR SEQ ID NO: 4110: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 12: CAAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAACCA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTMCCAAA ATCCAMMATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAAATCA AGTAAAGTTC TTTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTATACAAG TGAACATCAA 246		TTGCCCGTAA CCACTGAATC GTTCATCATT TTCAAATTTT TGAATCnGCT GGTCCATTCG	360
(2) INFORMATION FOR SEQ ID NO: 4110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTC CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 12: CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAACAGA GGAGTTAAAG CATCAACATC ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCA CAGTGCAATT GATGAAGATGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANAATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240		CACTGTA	367
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110: GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 25 CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAGATGA AGGTATAGAT TCAAATGAAG AATCCTGATT TGGAAAAGGA TCCTTCCAAA ATCCANATT (A) AAACCTGATT TGGAAAAGGA TCCTTCCAAA ATCCANATT (2) INFORMATION FOR SEQ ID NO: 4111: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: **TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCCATCACA CCTTTACAAA AGGTAAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CAGTTAAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGGTTTAA CTTTATACAAG TGAACATCAA 240		(2) INFORMATION FOR SEQ ID NO: 4110:	
GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 25 CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC 18: CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG 30 CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA	15	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 25 CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC 18: CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG 30 CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA		(a) CDOVENION DECEMBED CO. T. NO. (444)	
GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT 22 CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC ATAAAAATAG TTGTTGTTT GCAGAAGAGA CTAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA 120 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240	20		
CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAGA CTAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTMCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTGAA GTTGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240			60
CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS:		GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT	120
ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAAGATGA AGGTATAGAT TCAAATGAAG CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATAAGAA AATCCTGATT TGGAAAAGGA TCCTACCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: 45 TCAGATGAAG CTAAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA 120 CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC 180 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA	25	CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC	180
CGATTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA 120 CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240		CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA	240
CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA AATCCTGATT TGGAAAAGGA TCCTNCCAAA ATCCANNATT (2) INFORMATION FOR SEQ ID NO: 4111: (3) SEQUENCE CHARACTERISTICS:	30	ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG	300
(2) INFORMATION FOR SEQ ID NO: 4111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGGT CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTATAAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 246	ĢŪ	CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA 120 CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC 180 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240	•	AATCCTGATT TGGAAAAGGA TCCTnCCAAA ATCCAnnATT	400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111: TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC 180 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240	35	(2) INFORMATION FOR SEQ ID NO: 4111:	
TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240	40	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240			
GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111:	•
CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC 180 ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240	45	TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT	60
ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240		GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA	120
ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA 240		CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC	180
ATGAACTTTA TAGATCCATT CAATAATGTT CATACAATTT CTGGACAAGG TACGCTTGCT 300	50	ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA	240
		ATGAACTTTA TAGATCCATT CAATAATGTT CATACAATTT CTGGACAAGG TACGCTTGCT	300

	AATTGGTGGT GGCGGTTTAA TTTCCAGTAT TAGTACTAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4112:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 362 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(5) Toroboot. Timear	
	(with GEOMENGE DESCRIPTION GROUPS AND	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4112:	
15	GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA GTCAAACGCT CACATACGGC	60
	TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA CTCTGCTTTA AAATAATTTA	120
	ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT AAACGCGTTA TTAATCTTGT	180
20	GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT CAAGCTTATT TAAAACTCTT	240
	TATTCACTCG GnTTTGCTTG GGAAAATCTA TATTTTACnT ACTTATCTAG TnTTCAATGT	300
	ACAAATAATG GTGGGCCCAA GTGGACTCGA ACCACCGACC TCACGCTTAT CAGGGCGTGC	360
25	GC	362
	(2) INFORMATION FOR SEQ ID NO: 4113:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 363 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) 10102001. IIIIcul	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4113:	
	CAGGTGGTTT TGCGAAAAGT GAAGTATGGC GTCAAATGAT GTCAGATATA TTTGACACAG	60
40	AGTTAGTGGT TCCTGAAAGT TATGAAAGTT CATGCTTAGG TGCCTGCGTG CTCGGACTTA	120
	AAGCTGTAGG TGACATTGAA GATTTTTCAA TCGTTTCATC GATGGTCGGT GCCACAAACA	180
	ATCATACGCC GATTGAAGAA AATGTCACTG TTTACCAAGA GATCGTATCC ATTTTTATCA	240
45	ATTTAAGTCG TTCTTTAACA GAGAATTATG ACAAATTGCA GATTTCAACG CCACATATCG	300
	CTGAAATAAA ACNCCATAAA TACGNCACTC AAGCATCTTA GATAAAGTTG TNGGCCATGC	360
	TAC	363
<i>50</i>	(2) INFORMATION FOR SEQ ID NO: 4114:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs	
	(A) HERGIA. JJE DESC PELLS	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4114:	
	GGTCTGGGCT TGGTTCCGGT TCTGGGTCTG GACTTGGTTC TGGATCTGGC GTTGGTTCTG	60
10	GTTCTGGGTC TGGACTTGGT TCTGGGTCAA CCGGCGGCCC TGGAGTTGGG TCTTTCGGAT	120
	TTACTGCTGA ATCACCATCA GCACTTCCAC CACCATAACG TACAACATTC TCATTATTCC	180
	AACCGAAAAT ACTGTAGTCT CTATTTGTTA CAGGATCAAC ATTTTCTTGA ATAACCTGAG	240
15	TTTTTAAGTT CTTACCTGTA TTGTCGTAAT GCCCTTCTAC TAATACTACA TATGTTTTAG	300
	TAATATCACC AAATTAATAC TAGCTACATT GGATGCnCAT AATAGATCTA TTTTAAATGG	360
	nCTGTACTCC TTAAGGTAGA GCATTGGACT GCAn	394
20	(2) INFORMATION FOR SEQ ID NO: 4115:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4115:	
	GGCGATTATA TTAAAAAGCC AATTACAGAA TGTAGTGGTA ATGAAATATG CCAAGAATGG	60
	CTGTATCACT TAGGTGTATC AACTGACAAA ATTGAAGACT TAGCAAAACA TGCATCTAAT	120
<i>35</i>	ACGATTCCTG TTTATATGCC ATATATCACA TCTTATTTCA TGACGCGTGC TATCGGCGAC	180
	AGACCTTTAG TCGTCCCGCA TCAATCTCAG AACTTAGCAT TTATTGGTAA CTTTGCCAGA	240
	AACAGAGCGA GACACTGTAT TTACAACAGA ATATTCGGTT CGTACTGCCA GGGAAGCTGT	300
40	TTATCAATTA CTAAATATAG ATCGTGGTAT TCCAGAAGTC ATCAATAAGT CCATTGGATC	360
	TTnCGCGTnC TTAATGGGAT GGCCATATAC GAACTGGATG	400
45	TThCGCGThC TTAATGGGAT GGCCATATAC GAACTGGATG (2) INFORMATION FOR SEQ ID NO: 4116:	400
45 50		400

2831

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4116:

	TTAAAGGGCG AAATAGAAGT GCCGGGCGAT AAGTCAATGA CACACCGTGC AATCATGT	TG 120
	GCGTCGCTAG CTGAAGGTGT ATCTACTATA TATAAGCCAC TACTTGGCGA ATGTCGTC	GT 180
5	ACGATGGACA TTTTCCGACT GTTAGGTGTA GAAATCAAAG AAGATGATGA AAAATTAG	TT 240
	GTGACTTCCC CAGGATATCA ATCCTTTAAC ACGCCACATC AAGTATTGTA TACAGGAA	AA 300
_	TTCnGGGTAC GACAACACGA TTATAGGTTG TTAAGTGGGT TAGGTATTGA AAGTGGTT	TG 360
10	GTCnGGGCGA ATGTTTTCCA ATTGGGTAAA AGGCCCATGG	400
	(2) INFORMATION FOR SEQ ID NO: 4117:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117:	
	AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTT	TG 60
25	TTCCTTTTTT AATTTATATA TTTANAATAC ACATATTCAA GAGCCTCGAG ATATAAGT	CA 120
	ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCC	GG 180
30	GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGC	CC 240
	CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCC	CC 300
	AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGC	CC 360
35	CCACCACAGG GAATTTCGAA AGAAATnCT	389
	(2) INFORMATION FOR SEQ ID NO: 4118:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118:	•
	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCT	AC 60
50	TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCA	TC 120
	GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTA	TA 180
	GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT AAAAGTGA	TT 240

	ACATGTCACC ATGCTTCCCA CCTCGAACCT ATTAAACCTC ANCATCTTTG AAGGGGATCT	360
	TATHAACCGA A	371
5	(2) INFORMATION FOR SEQ ID NO: 4119:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4119:	
	GCACTATTAG CCCAGTTAGA GAAAGATTGA CCTAATCTAT CCAACCAATC AGCCGACCAT	60
	TGAAACAGTG GTGCTAATTG CGGTGAATAC ATTGACTAAT CCGTCACCAA AACCACCTGC	120
20	AGCACTTAAT AGCTTGTTAA ATACCGAAAC ACCCGTTGTA TTCATCATAT TAAAGAATCT	180
	TGAAGCTACA CTGCTATTTT CAGCCCATTn AAGCACGCTT TGAGACGCTT CTTCCATTCC	240
	TCTTGAAATA CCACTAAAAA ACGGNTGTAA GCTCTGCATT GCAGTTTTAA CAGTATTTAA	300
25	ACCATTTGCA AGAGTTGTGA AGNTAGCGGA TTGATTTTGC T	341
	(2) INFORMATION FOR SEQ ID NO: 4120:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4120:	
	GGTTGAGAAA AGCCAACACA GCTAGGGTAG TATCCCACCA GCGCCTCCAC GTAAGCTAGC	60
40	GCTCACGTTT CAAAGGCTCC TACCTATCCT GTACAAGCTG TGCCGAATTT CAATATCAGG	120
	CTACAGTAAA GCTCCACGGG GTCTTTCCGT CCTGTCGCGG GTAACCTGCA TCTTCACAGG	180
	TACTATGATT TCACCGAGTC TCTCGTTGAG ACAGTGCCCA AATCGTTACG CCTTTCGTGC	240
45	GGGTCGGAAC TTACCCGACA AGGAATTTCG CTACCTTAGG ACCGTTATAG TTACGGCCGC	300
	CGTTTACTGG GGCTTCGATT CGTAGCTTCG CAGANAAACG CACTTCCTGT TAAACCTTTC	360
50	CAGCACCGGn CAGGCGTTCA CCCTnATTAC ATCAACTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 4121:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
_		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4121:	
•	AATAAATCTT GCTTTATTCT TTTTACCAGT AATATCTAAA TGAGTTGGAT ATTTAACTTT	Ġ
10	CGCATTAATT TCAATATTAA ATTGCGTTAC CGCGACAAGC GCAAACACAA CATACATAAT	12
	AAGATTGGCT AAAAAGATAT AGTTAAAGCT AAATTCTGCG ACAAAGCCGC CCATTGCAGC	18
	ACCGACAGCC ACACCAATAT TTTGCGCTAA GTATATCGCA TTAAACGTTT GTCTTCCGCC	24
15	ATTTGGCCAC ACTGCTCCAG CCATAGCGTA TATCGCAGGA ATAATCATTC CGCCACCAAA	300
	CCCTAACATT ACCAGGCCAT ACCAGCATAC CCAGGGCCAC CCGNGGAAGG AAATTAAGTA	360
•.	GCGGTGGTAC TACCAANGAC CAGTGGAAGG TNCCAATTAA	400
20	(2) INFORMATION FOR SEQ ID NO: 4122:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4122:	
	GATAACTAAT AAAGTTTAGT TAAGTATTTT AATAACAAGT AGTATGTCAT TCTAGTAGCT	60
	AGAACAGATA TACTACTTGT TTGTTTTTGT GGAAAATTGA GTATATTCAA AAGGATAAGn	120
35	ACGAGAATTT CGTTATTAAA CTACGAATTC TCGATTTTTT TATATTTTAA GATAGGTTTA	180
	TTTCTGAAAA CTTAATAGAA AGGGGTTTGA CAAAGCTAAA GTGAAGTTTG ACGGTATAAA	240
•	CGCAAATTAA ATATACTTTT ATAGAAAATT AACTCAGGCT GGGACATAAA TCAATATTCT	300
40 _.	ATGCTCTACG GAGGTATATT GGCAGTAGTT GACTGAACGA AANGCGCTTG TNACCAGCTT	360
	TT	362
45	(2) INFORMATION FOR SEQ ID NO: 4123:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4123:	

	CGCGAGGTGG TTTACAAGGA TTGTTGACAT TTCAAGACTT ACCAGTAACA AGTTATACAA	120
	TCTGGGGTGG TGTCTCAGAT ATTGATTTAA TGTATGAAGA ACGTGTCGAT TTAAGAGGCA	180
5	TGCTACGAAG AATGATTGGT CATCCGAAAA AAGATCGAGC GGGCATATGA GGCACGCCAA	240
	GCGATTCCAA ACATTAATGA NAACAGTCCG CCAATATTAA TTGTACATNG GAGGGGAAAG	300
10	ACCCAGCAAG TTGGGTATTn CATCATGCGT ATTATTTTAA GCGGACCAAC TA	352
,,,	(2) INFORMATION FOR SEQ ID NO: 4124:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4124:	
	AACCAGGTGA TCTACCCTTG GTCAGGTTGA AGTTCAGGTA ACACTGAATG GAGGACCGAA	60
	CCGACTTACG TTGAAAAGTG GAGCGGATGA ACTGAGGGTA GCGGAGGAAA TTCCAATCGA	120
25	ACCTGGAGAT AGCTGGTTCT CTCCGAAATA GCTTTAGGGC TAGCCTCAAG TGGATGATTA	180
	TTGGGAGGTA GAGCACTGTT TGGACGAGGG GCCCCTCTTC GGGTTTACCA ATTTCAGACA	240
30	AACTTCCGAA TGCCAATTAA TTTGAACTTm GGAGTTCAGA ACATGGGTGA TAAGGTCCmT	300
•	GTTTCGnAAn GGGAAACAGC CCAGACCACC AGTTAAGGTC CCCAAATGTA TGTTTAAGTG	360
	GAAAAGGGTT TTGGCGTTGC CCCGACAACT AGGATGTTGG	400
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4125:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4125:	
45	GGCTTATTAA TCAAAAAATT TATAAAGAAT ATGTAGAAAA CTTTTATTTA CATCGAGGCT	60
	ACACGCTACA ACAGAAAATT AAAATTTTAA TTAGCTTATA CATTGTAATA GGTTTTTCAA	120
50	TTTATATGGT GGATGTTCTT GCAGTCCGTG TAGGATTAAT CATAATGGTT ATCATACAAA	180
	CCGCTGTACT CTTTACATTT GTAAAAACAT TACCCAAATC AAATCATAAA ATAGAGGAGT	240
	GATTGCCCAT GTTTATGGCA GAAAATAGAT TACAATTACA AAAAGGCAGT GCGGAAGAAA	300

	TTGTCACTAA AACATTAAAT ACCGGGATAC AGCCGAGTAA	400
	(2) INFORMATION FOR SEQ ID NO: 4126:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Toroboot. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4126:	•
15	AATCTATATT TTACTTACTT ATCTAGTTTT CAATGTACAA TTTCTTTTTA GTCAAGCGCT	60
•	CGCATAAGCA ATATCACTIT AACCAAAAAA TATTTGAATG TTAAATAAAC ATTCAAAACT	120
•	GAATACAATA TGTCACATTA TTCCGCATCT TCTGAAGAAG ATGTTCCGAA TATATCCTTA	180
20	GAAAGGAGT GATCCAGCCG CACCTTCCGA TACGGCTACC TTGTTACGAC TTCACCCCAA	240
	TCATTTGTCC CACCTTCGAC GGCTAGCTCC TAAAAGGGTT ACTCCACCGG CTTCGGGTGT	. 300
	TACAAACTCT CGTGGGTGTG GACGGGGCGG TGTGGTACAA nGACCCGGGG AACGTNATTC	360
25	ANCGGTAGCA TGGCTGGATC TAACGATTTA CTANGCGGAT	400
	(2) INFORMATION FOR SEQ ID NO: 4127:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4127:	
	CGAAATTTGT AGTAAAAGAT GTGCAACCAG CGAAACCAAC TGTGACTGAA ACAGCGGCAG	60
40	GAGCGATTAC AATTGCACCT GGAGCAAACC AAACAGTGAA TACACATGCC GGTAACGTAA	120
	CGACATACGC TGATAAATTA GTTATTAAAC GTAATGGTAA CGTTGTGACG ACATTTACAC	180
45	GTCGCAATAA TACGAGTCCA TGGGTGAAAG AAGCATCTGC AGCAACTGTA GCAGGTATTG	240
43	CTGGAACTAA TAATGGTATT ACTGTTGCAG CAGGTACTTT CAACCCTGCT GGATACAATT	300
	CCAAGTTGGT TGCAACGCCA AGGAAGCGGA GAGACCAGTG AAGTGATTGA GCCACCGTAA	360
50	TGGTTGGnTT CCCCAGTTTG TCGGCAnCCA CAACCGGAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4128:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4128:	
	GATTAGTGAA AAGTTGGTTG TACTATTACC GTTAAAATTT GGAGATTATC TGTCGTCTTC	6
10	AAGTATGCGT TCATTAATTG ATATTGGCGC ACCGTATAAC CATGTCAAAG TACCATTTGC	12
	AATGCAGTCA TTAGGCGCAT TAAGGCTAAC GCCTACGCGT TACATGAAAA ACGGAGAACA	18
	AGCAGAACAA TTATTACGTC AGCTTATAGA AAAAGATGAA GCACTAGCTA AGTATGTCAT	24
15	GGGTTGTGAT GAAACAGCTT GGTGGTCATA TATGGGTCCA GATAATGATA TTTTCCAAGA	30
	TCCATTANGG CCATCTAACT GTTCCAGCTA AGGAAAGTAT CCCCGAAGTG GCTAAGCCCA	36
	AAAATGATTA CGCCAACCAG CTAGTGGTCC ATmGGCCAGC	40
20	(2) INFORMATION FOR SEQ ID NO: 4129:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4129:	•
30	AGAGGTCCGT TGCCTTACCG CTTGGCTATA GCCCAATATA TAGATGGnGG AGGGGGGCAG	60
	ATTCGAACTG CCGAACCCGA AGAGCGGATT TACAGTCCGC CGCGTTTACC ACTTCGCTAC	120
<i>35</i>	CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG GGTTCGAACC	180
	GCCGACCCTC TGCTTGTAAG GCAGATGCTC TCCCAGCTGG AGCTAATTCT CCAAAATAAT	240
	GACTCCTGAC GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGTGTTC TTGAACCGCT	300
40	TGGACCAAGG GAGCCATGGC TCCAACAGGT GAGGGACTCG AACCTHACGG ACCGATTCGG	360
	TTnAACAGCC GGAT	374
	(2) INFORMATION FOR SEQ ID NO: 4130:	
<i>45</i> <i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 431 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATTAAATTTC AGTTGTTGCA ATTTCTTCAT CTGTAGGTAC ATCATCGTTA AGGCCAACAA	120
٠	GTGCTTCAGA AACATTTCGT GAATGATAAC CGATACGTTC AAGAACTCSA ATCATATCGA	180
5	TATATAGTAA TCCGCCTTTT GTTGTACATT CACCACGATT AAGGCGTTTA ATATGACCTT	240
	TGCGTAGTTT ATGTTCAATA TTAAATGATT CTCTACTACG TTCTACAATT TCATCTTTTT	300
10	TCGTTTTGTC ATAAACATCT AACATGTCGA TGGCTTTATC AAATGACTCA GCAACATGGT	360
10	TGGAATAAnT TATCCATACC GCGTTGTGCA TCTnCTGGTA ATGCGAATAT CTTCATCATG	420
	TTGGCGGTTT T	431
15	(2) INFORMATION FOR SEQ ID NO: 4131:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4131:	
25	TTTAGTTGAA GGCGGTGTTG TCGCATTTGC TGTTTGTTGC GGTGCTTCTA CTTTAGTTGA	60
	GGGCGGTGTT GTCGCGTTTG GTTTTGATTG CGGTGCTTCT ATTTTAGTTG AGGGCGGTGT	120
30	TGATGTGGTG CTTCCACTTT AGGNAANTGA GTGTTGTCGC GTTTGCTGCT TGCGTTGTCG	180
	TTGTGATTAC ACCTGTTGTT AAAAGGCCTA GTGCTAAACT TGTTTTAGCA ATCGTTGTTA	240
	TTTTCATAGT TGTATGCTCC ATTCGTAATT ATTAGATTTG TTCGATACAT TCATTGAATC	300
<i>35</i> ·	ATACAGCTTT ATTATAGAGG CGTATTGCTC CATTCACATT AAACCTGTnT AACCAGATTG	360
	GAAGCAGCGT TGAAThAAAT GAAGAAAGCC AGAAGTTCGT	400
	(2) INFORMATION FOR SEQ ID NO: 4132:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4132:	
	CCATTCACTG TATGTCTTTG GCCACCACCT TGACGTTGTT GTTGCTGTTG TTGATTTTGA	60
50	TTAGCTTGTT GTTGATTTTG ATTATTTTGT GCTTGATTGT TCGCTTGATT AGCGTTGTTT	,120
	TGATCATTAT CAGATTCATC TTTAGTCGCT TTGTCTTGAT CCTCTTTTGA TTTATCACTG	180

	ullet	
	TCAGCATTAT TTTTATTTGT ATTCGCGATT TTATTTTCTT TTGTACCATT ATTATGATTG	30
_	TTTAATGCCA TGCCTCCAAA TATCGCTAAA TGCACCGATA AATNAGTACA GCTGCAATGA	360
5	ATGGTAACAA TACTTTGGGC CAGnCACCGT TTTTACGGTn	400
	(2) INFORMATION FOR SEQ ID NO: 4133:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4133:	•
	TTGAATACTT TTCTTCCACA CAAATGTATA TCTATTGGCA TTAGCTTCTA CTTTTGTACC	60
20	ATCAATAAAA ATTGAATTAT TATCAATAAG ATTTTGCTTT AAACATTGAC TATGGAACTG	120
	AATAAATAAA GATTCAATTA ACGCATCAGT ATTAGGATTC ACTCTAAAAC GATTAATAGT	180
	TTTATAAGAA GGTGTTTGAT TTTGAGCTAA CCACATCATT CGAATACTGT CATGAAGTAA	240
25	TTTCTCTATT CTTCGACCAG AAAATACAGA TTGAGTATAT GCATATAAGA TGATTTTTAA	300
	CATCATTTTT GGGATGATAG GATGTTGCGC CACGATGATG TCTGAATTCA TCGAATTCGC	360
30	TANCGGGTAC CGTTCCACCA ATTCCATTAA CATATCGCGG AATATCATTT TGAGGAA	417
	(2) INFORMATION FOR SEQ ID NO: 4134:	•
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4134:	
	GGTTTAATAT GGACCTTTGC CGTnTTTATG TTCAATATTA AATGGATTCT CTACTACGTT	60
45	CTACAATTTC ATCTTTTTTC GTTTTGTCAT AAACATCTAA CATGTCGATG GCTTTATCAA	120
•	ATGACTCAGC AACATGGTTG NAATAATTTA TCCATACCGC GTTGTGCATC TTCTGTAATG	180
	CGNAATATCT TCATCATGTT GGTCGTTTTA ATTGAGCGAC ATACTCTTCT GTTAGCTCTG	240
·. 50	CTACTTTTAA AATAGAGCGA TTGACATCAA ACATAACTGC TAAACGCTCA ACGTCTGCCT	300
	TCGTAATGGC TTTTGTAGAA ATTCTAACTA AATAATTTCG AATGCTATCA TTGT	354
	(2) INFORMATION FOR SEC ID NO. 4135.	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4135:	,
10	CTGGGATCGC CACCTTTAAG TCTAACAACC TTGTTATATC GACGCGCTGC TTCCACGATA	60
	CAGTCATTTA TTTTTTCTTG CTGAATATGT TTTGCATACG GCTTTTTACC AACATCGATA	120
	ATTTCAGTAG TCAAATTCGC ATATTGTAAA ATTAACGGAT TCACTAATCG ATCATATAGA	180
15	ATGACATCCG CTTCACGTAT TAAACGCTCA GCCTTTTTCG TCAAATAATT CGGATTACCT	240
٠	GGACCCGCAC CTATCAAGTA AACCTTGCCA TATTCCTCTA CAGACATATA TATACGGTCC	-300
20	CGTCTGTAAC TTCTACCTCA TAAACATCTA CACAACCTTC ATCAGGTCTG GACAATACCT	360
	GRATTAAACA ATTTTTGATC GTGGGGGGGC AAATACATAT	400
	(2) INFORMATION FOR SEQ ID NO: 4136:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4136:	
	ACCACTGAAT CGTTCATCAT TTTCAAATTT TGAATCTGCT GTCCATTTCG CACTGTATGG	60
35	TGGGTTCGCA ATAACCGCAT CAAATGTATT GCCTAAAAAG GCTGGATTTT CCAATGTGTC	120
	ATCATTACGG ATCTCGAAGT TCTCATAACG CACATCATGT AATAACATAT TCATGCGTGC	180
40	TAAGTTGTAT GTAGTATTGm TACGTTCTTG TCCGAAATAA CGATACACTT GCGTTTCTTT	240
	ACCAACACGT AACAACAATG GAACCGGAnC CACATGTTGG GTCGTACACG TGGACGTAAT	300
	TTATCHTTAC CGTGCTGTGA CAATCTTCGC CAGTATCTTA GATACTTG	348
45	(2) INFORMATION FOR SEQ ID NO: 4137:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4137:	

	TGGACAATAC AAAGGGCAGC GAAACCGCGA GTCAAAGCAA ATCCCATAAA GTTGTTCTCA	120
	GTTCGGATTG TAGTCTGCAA CTCGACTACA TGNAAGCTGG NAATCGCTAG TAATCGTAGA	180
5.	TCAGCATGCT ACGGTGAAAT ACGTTCCCGG GTCTTGTACA CACCGCCCGT CACACCACGA	240
	GAGTTTGTAA CACCCGAAGC CGGTGGAGTA ACCTTTTAAG GAGCTAGCCG TCGAAAGTGG	300
	GGACAAATGA TTGGGGTGAA TCGTAACAAG GTAAGCCGTG ATCGGNAAGG TGCGGCTGGG	360
10	AT	362
	(2) INFORMATION FOR SEQ ID NO: 4138:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4138:	
	ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT CTCTGGATCA	60
25	AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA TCGGCTTCTA	120
•	GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC CATTTTTATA	180
30	AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT ACATAAGTAA	240
	ACTCTGCTTT AAAATAATTT AACTGCATTG TCTGCTAAAC GTTTTCTTTT ATAAAAAGAT	300
	TTAAACGCGT TATTAATCTT GTGAGTGTTC TTTCGAACAC CAGCGATTAN TTCnTGAGGA	360
35	ATTCAAGCCT ANTTAAAACC CTTA	384
	(2) INFORMATION FOR SEQ ID NO: 4139:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4139:	
	CTCATTATGG GACGTGCACA AGATGGTTTT CTTGATCAAG ACAAATATGA CATTATTTTC	60
50	AAAACAGCTG AAAATTTAGA CGTACCGATT TATCTACATC CCGCGCCAGT TAACAGTGAC	120
	ATTTATCAAT CATACTATAA AGGAAATTAT CCTGAAGTAA CTGCGGCAAC ATTTGCTTGT	180
	TTTGGTTATG GTTGGCACAT TGATGTCGGC ATTCATACAA TACATCTnGT nTnATCTGGT	240

	TCCTTAGAAC GAATGGATGA AGCTTATCCG TGAACATTTG AACCACCCCG GAAGCAATAC	360
,	TTAAAAATAA ATTTAnTATC ACACCGGGTG GCATGGTACC	400
່ 5	(2) INFORMATION FOR SEQ ID NO: 4140:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4140:	
•	CAACCACATT CGCTCGGCTC ACCTTAGAAT TCTCATCTTG AACTACCTGT GTCGGTTTGC	60
	GGTACGGrCA CCTATTTCT ATCTAGAGGC TTTTCTCGGc AGTGTGAAAT CAACGaCTCG	120
20	AAGACTCAAT GTCTTCTCCC CATCACAGCT CAGCCTTAAC GAGTACCGGA TTTGCCTAAT	180
	ACTCAGCCTT ACTGCTTAGA CGTGCAATCC AATCGCACGC TTCGCCTATC CTACTGCGTC	240
	CCCCCATCGA TTAAAACGAT TATAGGTGGT ACAGGAATAT CAACCTGTTA TCCATCGCCT	300
25	AAGCCTGTCG GGCTCAGCTT AAGGACCCGA CTAACCCCAG AACCGGAAGA GCCTTCCTCT	360
	GGAAAACCTT AGTCAATCCG TTGGACCGGG ATCTCAACCG	400
30	(2) INFORMATION FOR SEQ ID NO: 4141:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
<i>35</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4141:	
40	CATATOGATA ACATGACATA ACTOATGOTG GGTTTCCCCA TTCGGAAATC TCTGGATCAA	60
	AGCTTACTTA CAGCTCCCCA AAGCATATCG TCGTTAGTAA CGTCCTTCAT CGGCTTCTAG	` 120
45	TGCCAAGGCA TCCACCGTGC GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA	180
	GTCAAACGCT CACATACGGC TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA	240
	CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT	300
50	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACATAG GCGGAGTATT TCTTAAGGAA	360
÷	THCAAGCHTA TTTAAAACTC TTAATCACHC GGTTTTGCHT	400
	(2) INFORMATION FOR SEQ ID NO: 4142:	
55	•	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	· .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4142:	
10	GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC	60
	TTTGTGTTTA CTTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTC ACGGTCTCAA	120
	CTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC	180
15	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	240
	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGGTTCGT CAGATTCAAA CGTTTCACTC	300
	GCCAAGCCAT TTTCCTTGGG TTACTTTTAA TTTGACGTTT AAGGCATAAA AAAAAGAGAC	360
20	TTGCGGGCTC AAATGCGGnT CATCGCATCC ATTTTTGnCn	400
	(2) INFORMATION FOR SEQ ID NO: 4143:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i> .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4143:	
	TTTAAAATTG ACATTATTAC TGACCAAACA AGTGCACATG ATCCGCTAAA TGGATATGTG	. 60
35	CCACAAGGAA GCGAAAGTAT TGCGTGAAAA AGATCCGAAA AAATATGTTG AACTGTCACA	120
	AGCTTCAATG GCAAAGCATG TTGAATTAAT GCTTGGAATT CCAAAAACGT GGCGCTGTAG	180
40	CATTTGATTA TGGTAACAAT ATTCGTCAAG TAGCCTTCAA TAACGGANGN ATAAATGCTT	240
40	TTGGACTTCC CAGGTTTTGT ACCAGCTTAC ATTAGACCAT TNATTCTGTG TAGGTTAAAG	300
	GGCCATTCCG CTTTGCTGCG TTGGAGTGGT GGATCCAAAA GATATCGAGC GTGCCGGATG	360
45	GAGGAAATG	369
٠	(2) INFORMATION FOR SEQ ID NO: 4144:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGAAAGATAA ATAGCTTCAT CAATGTCATG CGTCACTAAA ATAATAGTTG ATTGCGTTTT	6
	ATGTTTTAGT TGCACTAGTT GATCCTGAAG TTTATAACGT GTAAATGCAT CTAATGCACC	120
5	TAATGGCTCA TCCATCAATA TAACGTTAGG CTTATGCACA TGCGCTCGAC ATAGTGCCAC	180
	ACGTTGTTTC ATACCCCCGG ACAGTTGCTC GGGAAAATGC TTTCCCCTGT CTTCTAAATC	240
40	AACTAATTTA AGCTGTGCNT TAATCTCTTC ATCACTAATT TTCTGTTGTA ATCCAATCCT	300
10	AATGTTGTCA TTAATCGTTT TCCAGGCAGC AAATTATGGT GTTGAAATAG CATAAACAAn	360
,	CGGGAGnGGC	370
15	(2) INFORMATION FOR SEQ ID NO: 4145:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4145:	
25	CGAGGTAGCA AAGAACAAAT TGCGAAATAT GTACCTAAAT TACAGTCACA TGAACTGCGT	60
•.	ACATGCTTG CTTTAACTGA ACCAGAACAC GGTTCGGACG TTGCnGGAGG TCTTGAAACA	120
30	GTCGCTGAAC GCCAAGGCGA TACTTGGGTT ATCAATGGTG AAAAGAAATG GATTGGTGGT	180
30	GCACATGTAT CTGATGTCAT TCCAGTATTC GCAGTAAATA AAGAAACTGG GCAAACCCCA	240
	TTGCTTTGTA GTCAGACCAG AACAAGATGG GCGTCGATAT TGAAGTCATT GGATAATAAA	300
35	ATCGCACTIC GGCATTGTTC CTAACGCCCT AATTTNAATT AANTAATGTT CAAAGTAGGA	360
	TTGAAGCGGG	370
•	(2) INFORMATION FOR SEQ ID NO: 4146:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(B) 10102001. IIIICAI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4146:	
50	TGGGGTGTTT TTACCAATAA AGCGTTGCAA GGTGGCGGTA GTTTAATCGA TTATGGTTGC	60
	CACTTGTTAG CTACTAGGTA AAGATATGGT GCCGCATGAA GTCTAGGAAA AACATATAAT	120
	CAATTGAGCA AACAACCGAA TCAAATTAAT GATTGGGGAA CATTTGATCA TACTAAATTT	180
<i>55</i>		

	GAATGTTCGT GGTCTGCAAA TATCAAAGAA GATAAGGTTC ACGTTnTTTT ATCAGGAGGA	30
	GGATGGCGGT ATCCAATTTA TTTCCATTTG GAAATATATG GNGCCCCGTT TTGGGAACNC	36
5	ATTTTTTGGA AAGCCAAGCT	386
	(2) INFORMATION FOR SEQ ID NO: 4147:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4147:	
	TACTTATCTA GTTTTCAATG TACAATTTCT TTTTAGTCAA GCGCTCGCAT AAGCAATATC	60
20	ACTITAACCA AAAAATATTI GAATGITAAA TAAACATTCA AAACTGAATA CAATATGTCA	120
	CATTATTCCG CATCTTCTGA AGAAGATGTT CCGAATATAT CCTTAGAAAG GAGGTGATCC	180
	AGCCGCACCT TCCGATACGG CTACCTTGTT ACGACTTCAC CCCAATCATT TGTCCCACCT	240
25	TCGACGGCTA GCTCCTAAAA GGTTACTCCA CCGAnTTCGG GTGTTACAAA CTCTCGTGGT	300
	GTGACGGGCG GTGTGTACAA GACCCGGGAC GTATTCACCT GGCAGCTTGn CTGGGTTTAC	360
30	nT	362
	(2) INFORMATION FOR SEQ ID NO: 4148:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4148:	
	CACCATACAT GCGAAATGGA CAGCAGATTC AAAATTTGAA AATGATGAAC GATTCAGTGG	60
	TTACGGCAAG CTTGCGCCAA AATCCAAAGC AGACTTTGCC TTTATTCAAC ACATGGTACA	120
45	TTACCTAGAC GATGAAGGTA CCATGGCAGT CGTACTCCCA CATGGTGTAT TATTCCGTGG	180
	TGCCGCAGAA GGTGTGATTC GTCGCTATTT AATAGAAGAA AAGAACTACT TAGAAGCCGT	240
50	GATTGGGTTA CAGCCAATAT TTTCTATGGG nCAAGTATTC CAACATGTAT TTAGTATTAA	300
	AAATGTCGCC ACAAGACGCC ACGTACTATT ATCGATGCAT CCAATGATTT GAAAAGGAAA	360
	AATCAAACCA TTAAGCGTGC CAAGCGACGA TATNGCNCTA	400

•		
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4149:	
10	CAGCTATTGA TATCGATTAC CATACTGCTG TGGATAGCGA CAGGTTCACG TTGGAGGATA	6
-	CACTGAGTCC TCTGAGGAAT CAAATCCAAT TGACTTTGAA GAATCTACAC ATGAAAATTC	12
	AAAACATCAC GCTGATGTTG TTGAATATGA AGAAGATACA AACCCAGGTG GTGGTCAGGT	18
15 .	TACTACTGAG TCTAACTTAG TTGAATTTGA CGAAGAGTCT ACAAAAGGTA TTGTAACTGG	24
	CGCnTGAGCG ATCATACAAC AGTTGAAGAT ACGAAGAATA TACACTGAAG TAATCTGATT	30
20	GAATAGTGGA TGAATACCTG AAGAGCATGN TCAGCACAAG ACCAGTCGAG GAATNACTAA	36
	AACCATCATC ATATTCHCAT CTGGTTAGGA CTGAAATGGC	40
	(2) INFORMATION FOR SEQ ID NO: 4150:	٠
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4150:	
35	AAGGACGACA TTAGACGAAT CATCTGGAAA GATAATCAAA GAAGGTAATA ATCCTGTAGT	6
	CGAAAATGTT GTCTCTTTG AGTGGATCCT GAGTACGACG GAGCACGTGA AATTCCGTCG	12
	GAATCTGGGA GGACCATCTC CTAAGGCTAA ATACTCTCTA GTGACCGATA GTGAACCAGT	18
40	ACCGTGCAGG AGAAGGTGAA AAGCACCCCG GAAGGAGTTG AAATAGAACC TGAAACCGTG	24
	TGCTTACAAG TAGTCAGAGC CCGTTAATGG GTGATGGCGT GCCTTTTGTA GAATGAACCG	30
	GCGAGTTACG ATTTGATGCA AGTTAAGCAT AAATGTGGAG CCGTAGCAGA ACNNGTTNTG	36
45	AATAGGCGTT A	37:
	(2) INFORMATION FOR SEQ ID NO: 4151:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4151:	
	TCAGCTTTTT TGATATGTAT TTTATAATGT ACAGCTCGTT GACNNTAATT TTCCTTATAT	60
5	TAAGTGCCAT CAATACAAAA CCTAGCTCTC GTTTAACTTT ATTTATTCCT CGAACTGACA	120
	TTCGAGTGAA CCCAAAATAG CCTTCATAAA TCCAAAAGCA GGCTCTACAT CAATTTTTCT	180
	TTGACTATAG ATGTTTTTCG TTTCTGGTTC AGAAAGCTTT TGATTAATTT GGACTTTAAA	240
10	GTATTCCCAA TTATAATTCT TCATGGATTT TCTTATTGGG ATTTCGAATT TGGTTTCATG	300
	CATTGATGTC TCAAAGAACA TGATGGAACA GTCCAnCACA TTCCAGATAG TTTGGAAGTC	360
15	TCGTTT	366
	(2) INFORMATION FOR SEQ ID NO: 4152:	
?0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
?5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4152:	
	TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC	60
3 <i>0</i>	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	120
	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	180
	TCGCCAAGCC ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAA	240
35	GAGACCTTGC GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGCA ACGTTCTACT	300
	CTAGCGGGAC GTAAGTGGCT ACCATCGACG CTAAGAACCT TTCCTGGACT TGGTGGACAA	360
	TCGCnTGCCT CCTCCGGGCTC TCGGCTTACG	400
10	(2) INFORMATION FOR SEQ ID NO: 4153:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 <i>0</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4153:	
	TGATATTCCT GTACCACCTA TAATCGTTTT AATCGATGGG GGGACGCATA GGNATAGGCG	60
	ACGTGCGATT GGATTGCACG TCTAAGCAGT AAGGCTGAGT ATTAGGCAAA TCCGGTACTC	120

	CCGAGAAAAG CCTCTAGATA GAAAATAGGT GCCCGTACCG CAAACCGACA CAGGTAGTTC	24
	AAGATGAGAT TCTAAGGTGG AGCGAGCGAA CTCTCGTTTA AGGACTCGGG CAAATGGACC	300
5	CCGTTACTTC GGGGAGANGG GTGCTCTTTA NGGGTTTACG CCCAGAAGAG CCGCATTGAA	360
	TAAGGCCCAA GCGnTGTTTT ATCCAAAACA CGGTCTCTGC	400
	(2) INFORMATION FOR SEQ ID NO: 4154:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4154:	
20	TTTTAGCAAT CATTTTAACA GTCAGTCATA TTAAAGGCTG GCTAACGATT GTTATCTnGT	- 60
	nCAGATTTGT AAGTTAAGAT TTCTTGTAAT GTGTATGCAG CACCATATGC TTCAAGTGCC	120
	CATACCTCCA TCTCACCAAA ACGTTGTCCA CCGAATTGCG CTTTACCGCC AAGTGGTTGT	180
25	TGTGTAACAA GTGAATATGG TCCTGTTGAA CGCGCATGTA ATTTATCATC AACCATGTGC	240
	GCAAGTTTCA ACATGTACAT TACACCTACT GAAATACGGT TATCGAATGG TTCACCTGTA	300
	CGTCCATCAT AAAGTACAGT TTTACCATCA CGAGCCATAC CAGCTTCTTC AATTGTTGGA	360
30	CCATACATCG TCATCGTTTG CACCGTCAAA TACTGGTGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4155:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. :
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4155:	
	GATCCGAAGT TACCAACAGG AGAGAAAGAG GAAGTTCCAG GTAAACCAGG AATTAAGAAT	60
45	CCAGAAACAG GAGATGTAGT TAGACCACCG GTCGATAGCG TAACAAAATA TGGACCTGTA	120
	AAAGGAGACT CGATTGTAGA AAAAGAAGAA ATTCCATTCG AGAAAGAACG TAAATTTAAT	180
50	CCTGATTTAG CACCAGGGAC AGAAAAAGTA ACAAGAGAAG GACAAAAAAGG TGAGAAGACA	240
	ATAACGACGC CAACACTAAA AAATCCATTA ACTGGAGAAA TTATTAGTAA AGGTGAATCG	300
	AAAGAAGAAA TCACANAAGT CCAGTTAATG AATTAACAGA TTCGGTGGCG AGAAATACCG	360

(2) INFORMATION FOR SEQ ID NO: 4156:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(wi) SEQUENCE DESCRIPTION, CEO ID NO. 4150	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4156:	
	CAAAGTGACA GGTGGTGCAT GGTTGTCGTC AGCTCGTGTC GTGAGATGTT GGGTTAAGTC	6
15	CCGCAACGAG CGCAACCCTT AAGCTTAGTT GCCATCATTA AGTTGGGCAC TCTAAGTTGA	12
	CTGCCGGTGA CAAACCNGGG GNAAGGTGGG GATGACGTCA AATCATCATG CCCCTTATGA	18
	TTTGGGCTAC ACACGTGCTA CAATGGACAA TACAAAGGGC AGCGAAACCG CGAGTGCAAG	24
20	CAAATCCCAT AAAGTTGTTC TCAGTTCGGA TTGTAGTCTG CAACTCGACT ACATGAAGCT	30
	GGGAATCGCT AGTAATCGTT AGATCCAGCA TGGCTAACGG TGGAnTACGT TTCCCGGGGT	36
•	CCTTGTTACA CACCGCCCGT	. 38
25	(2) INFORMATION FOR SEQ ID NO: 4157:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4157:	
	TGGAGAAGGA CCCAAAAATG TTGCCGTTTC AAGGTTATGT TTTACAACAT TTCGAACTTA	60
	TGGATGATGG ATTCTGCCAA GTTAAAATAA CTGAAGATGT ATTGGAGCAA TTCGGTATTC	120
40	AGCCAAATGA AGCATCTCAG TTTGTTAATA CAATTGCTGA CATCAAAGGC TTGAAAATAT	180
	GGGTATTTGC AGTCGATGGA AGGTAATGAA ATCAGATGTC GATTACGTTC TAAAGGGCAA	240
	TTGGATTATT AATGATATTG CGCAGATTTT GGTGGCGGTG GTCATCCGAA TGCGTCAGGA	300
45	GTTTCAGTGG ACCAGCTGGG GTGGANTTGA GCCACTTGCT ACCAGCTTTA CGGCACCAAA	360
•	ACTTHACTTA TAGGAAGGGG CCCATTCCAT CCAGGTGGGC	400
50	(2) INFORMATION FOR SEQ ID NO: 4158:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 351 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	ı

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4158:	
. •	AAATCTCTGG GATCAAATCT TACTTACAGC TCCCCAAAGn CATATCGTCG TTAGTAACGT	60
·5	CCTTCATCGG CTTCTAGTGC CAAGGCATCC ACCGTGCGCC CTTAATAACT TAATCTATGT	120
	TTCCACCATT TTTATAAGTC AAACGTTAAC ATGAAGTTAC GTTCTTTTAT AAAAAGATTT	180
10	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT	240
	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT	300
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGn n	351
15	(2) INFORMATION FOR SEQ ID NO: 4159:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4159:	
·	AGTTAAAGGA ACTTTTAAAG TGGTTGGCCG CCGTNATTGC CTTCCTNACC TTTTTGTCCT	60
	TCTCTTGLTA CTTTTTCTGT CCCTGGTGCT AAATCmGGAT TAAATTTACG TTCTTTCTTG	120
30	AATGGAATYT CTTCTTTTC TACAATCGAG TCTCCTTTTA CAGGTCCATA TTTTGTTACG	180
	CTATCGACCG GTGGTCTAAC TACGTCTCCT GTTTCTGGAT TCTTAATTCC TGGTTTACCT	240
	GGAACTTCYT CTTTCTCTC TGTTGGTAAC TTCGGATCAA ATTCGTCTCG ATGACCTGGT	. 300
<i>35</i>	GTTATCGTTT CTGGTCCGTA TTCTGTTAAT TCATTAATCG GATCTTTTGT GATTTCTTCT	360
	TTTGGTTCAC CHTTHACGAA TAATHACTCC AGTAAAGGAT TTTTTAAGTG TTGGTGTCGT	420
	(2) INFORMATION FOR SEQ ID NO: 4160:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4160:	
50	ACGATAATGG TGACGGGTTA CAAAGCCAAC ACAGCTAGGG TAGTATCCCA CCAGCGTCCT	60
,	CCACGTAATC TAGCGCTCAC GTTTCAAAGG CTCCTACCTA TCCTGTACAA GCTGTGCCGA	120

	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAnTCGT	24
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGART TTCGCTACCT TAGGACCGTT	30
5	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAn TAACCACTC	35 !
	(2) INFORMATION FOR SEQ ID NO: 4161:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4161:	٠
	ATTGACTAAG GTTTCCAGAG GAAGGCTCGT CCGCTCTGGG TTAGTCGGGT CCTAAGCTGA	60
20 .	GGCCGGNAAC GGTAGGGCGA TGGATAACAG GTTGATATTC CTGTACCACC TATAATCGTT	120
	TTAATCGATG GGGGGACGCA TAGGGATAGG CGAACGTGTC GATTGGATTG	180
	CAGTAAGGCT GAGTATTAGG CAAATCCGGT ACTCGTTAAG GCTGGAGCTG TGATGGGGAG	240
25	AAGACATTGT GTCTTCGAGT CGTTGATTTC ACACTGCCGA GAAAAGCCTC TAGATAGAAA	300
	ATAGGTGCCC GTGACCGCAA ACCGACACAG GTAGTHCAAG ATGAGAAHTC T	351
30	(2) INFORMATION FOR SEQ ID NO: 4162:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4162:	
40	ADCGTCCTGC TTTGCACGCC AGAGGTCAGC GGTTCGATCC CGCTAGTCTC CACCATTTAT	60
	TITITACACG ATGAACATTG AAAACTGAAT GACAATATGT CAACGTTAAT TCCAAAAAAC	120
,	GTAACTATAA GTTACAAACA TTATTTAGTA TTTATGAGCT AATCAAACAT CATAATTTTT	. 180
45	ATGGAGAGTT TGATCCTGGC TCAGGATGAA CGCTGGCGGC GTGCCTAATA CATGCAAGTC	240
	GAGCGAACGG ACGAGAAGCT TGCTTCTCTG ATGTTAGCGG CGGACGGGTG AGTAACACGT	300
50	GGATAACCTA CCTATAAGAC TGGGGATAAC TTCGGGGAAC CGGAGCCAAT ACCGGATAAT	360
30	Antitgaacc gcainggicc anaagtgaaa gaccggciig	400
	(2) INFORMATION FOR SEQ ID NO: 4163:	,

5	(A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4163:	
10	ATTTTATATA TGAAATAATC TGGGACAACA TTCATAAATC TTATTGTCGT CCATTTTTTT	6
	AAAATAATAC CAATCTCATT TTTAAATTCT AAACTTGGTT TCGTATAATA CGCTCTTAAA	12
	TCTTTAAATT TAGGATTTAT TTCTGTTGGT ACTTGTTTTG TGGTTGGCGA TTGTGGTGTG	18
15	TCTGATTTAG TAGATTGCAT TGGTTGTGGC GTGTTTGTTG ATGGAGGTGT TGTCACTTTA	24
	GTTGNAAGGC GGTGTTGTCG CATTTGCTGT TTGTTGCGGT GCTTCTACTT TNATTGCAGG	30
20	CGGTGTTGTC GCGTTTGGTT TTGnATGCGG TGCTTCTATT TT	34
	(2) INFORMATION FOR SEQ ID NO: 4164:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4164:	,
	TCACGACACG AGCTGACGAC AACCATGCAC CACCTGTCAC TTTGTCCCCC GAGGAAGGGC	, 60
<i>35</i>	TCTATCTCTA GAGTTGTCAA AGGATGTCAA GATTTGGTAA GGTTCTTCGC GTTGCTTCGA	120
0.0	ATTAAACCAC ATGCTCCACC GCTTGTGCGG TTCCCCGTCA ATTCCTTTGA GTTTCAACCT	180
	TGCGGTCGTA CTCCCCAGGC GGAGTGCTTA ATGCGTTAnT GCCAGCACTA AAGGGGCGGA	240
40	AACCCCCTAA ACACTTAGCA CTCCATCGTT TACGGCGTGG AACTACCAGG GTATCTAATC	300
	CTGTTTGATC CCCACGCTTT CGCACATCAG GTCATTAACA GACCAGAAAT CGCTTGGCCA	360
	ngggggtnec nccaaaactt tggggattta acggtaaaaa	400
45	(2) INFORMATION FOR SEQ ID NO: 4165:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4165:

	GCATTAATTT CATGTGTACC TTCGTACGTG TAAATCGCTT CTGCATCAGA GAAGAAACGT	120
	GCAATATCAT AATCGTCAGC TAGTATGCCA TTACCACCTG TAATACCGCG GCCCATAGCT	180
5	ACTGTCTCAC GCAAACGTAA GGCATTCATC ATCTTCGCCG TTGAAGTTGC AACCTCGTCA	240
	TATTCACCAT GTGCTTGCAT ATTAGCTAAT TGAGCACATG TTGCCATTGC TTGAGCTAAA	300
10	TTANCTTGCA TCATTGCTAG CTTTCCTGTA TTAACGGATA TTACTAATNG GTTGCCGAAT	360
	GCTTACGCTC AGGGACNTAA CNAAGTGGCA CGTAAGCGGC	400
	(2) INFORMATION FOR SEQ ID NO: 4166:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4166:	
	AAAGTTCTTT GGAAATAGTA ACGTTGAAGT TGTACTCACT GGTGATACAT TTGATCACTG	60
25	TTTAGCTGAA GCTTTAACTT ATACAAGTGA ACATCAAATG AACTTTATAG ATCCATTCAA	120
	TAATGTTCAT ACAATTTCTG GACAAGGTAC GCTTGCTAAA GAAATGCTAG AACAAGCAAA	180
30	GTCTGACAAT GTTAACTTTG ATTATCTATT TGCCGCAATT GGTGGTGGCG GTTTAATTTC	240
···,	AGGTATTAGT ACTTACTTTA AAACCTATTC ACCTACCACG GAAAATTATA GGTGTTGGAA	300
	CCTTCAGGTG GCAAGTAGTA TGGTATGGAA TCNGGTGGTG GGTAAATAAT CCNGGTNGTC	360
35	CACATTGGCC CTAATAACCG ATAAAATTTG GGGGGCCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 4167:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4167:	
	CTTATAATCC ACACCCTGAG CAAACGCTnC TTATGACAGA GTATTAAAAT AAGCCGATAA	60
50		120
	ATTGAAGTAA CTAAATTAAT ATTATGTTGT TCAATTAAAA GCTTCATACA AACCTAATCT	180
	ATTTGCACTC CACCGGTAAC ACCGAACACT TGTCCGGTTG TATAACTTGA TTCTTCTGGA	240

	GTTTTTTGTA CCAAATGNTT GGGGATTTTA CTTNGTGGGT TGTCCACCAG AAATTTGT	358
	(2) INFORMATION FOR SEQ ID NO: 4168:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4168:	
15	TTTCTTGACC ATATGGACGT AAAGAGATGT TAGCATCACA ACGTAAAGAT CCCTCTTCCA	60
	TCTTAACGTC TGATACACCA GTGTATTGAA TAATTGAACG CAATTTTTCT AAATATGCAT	120
	ATGCTTCTTT AGGTGAACGA ATATCTGGTT CAGATACGAT TTCAATTAGC GGTGTACCTT	180
20	GACGGTTCAA GTCAACTAAT GAATACTCAC CTTTATGTGT TGACTTACCA GCATCTTCTT	240
	CCATGTGGAA GACGAGTAAT ACCGATTCGT TTTGTTTCAC CGTCGACTTC GATATCGATA	300
	TATCCATTTT CACCAATTGG TTGATCAAAT TGAGAAnTTG AGAGCTTnTG GnTTAGCTGG	360
25	ATAGAAATAG TTCTTACGGT CAACTTAGAT CCGTTGCGAT	400
	(2) INFORMATION FOR SEQ ID NO: 4169:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4169:	
	ACCATGTTTG AATGAATCCA TTGGAATCAT TATTGAAGTA AATTAAGGAA TCTATAATGT	60
40	TCGTTAAATA AAACTGATCC CGTTGTGCTT CACACCCGAT AGATAGGGAT TTACAGATAA	120
	ATTCAGGTCT CTTCCACGTC ATATTTGGAC CCATCGAAAA TTCGGGTTCT CAAATCATCG	180
	AACATAACAA AAGAAGCTAA GCAACATGTA GGCCGTTGTC ACTTAACTTC TTGTTTTTCC	240
45	GATGACAGCT TCTATTTAGA GAATGTCATG ATTATTTAT ATTCACTTCA ATGTTATCAA	300
	TATTAGTGCC ATCTATGACA TCTGCCATGC GATTTTCTTG TAATTTTTTG TGCAATCAAC	360
50	GTGTACnTCC ACGGTTTTCA TTTAANAACA ATTTACCGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4170:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 395 base pairs	ı
	•	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4170:	
	TACCGAATCG AAGCCCCAGT AAACGGCGGC CGTAACTATA ACGGTCCTAA GGTAGCGAAA	60
10	TTCCTTGTCG GGTAAGTTCC GACCCGCACG AAAGGCGTAA CGATTTGGGC ACTGTCTCAA	120
	CGAGAGACTC GGTGAAATCA TAGTACCTGT GAAGATGCAG GTTACCCGCG ACAGGACGGA	180
	AAGACCCCGT GGAGCTTTAC TGTAGCCTGA TATTGAAATT CGGCACAGCT TGTTACAGGA	240
15	TAGGTAAGGA GCCTTTGGAA ACGTGAGCGC TANTTTACGT GGNAGGCGCT GGGTGGGGAT	300
	ACTTACCCTA AGCTGTGTTG GCTTTCTAAC CCGCACCAnT TATCGTGGTG GGGAGACCAT	360
	GGTCAAGCGG GGCATTTTGA ATGGGGGGCG GTTCG	395
20	(2) INFORMATION FOR SEQ ID NO: 4171:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4171:	
	TACATTATAG CTTTAATCGT TTGAAGTATA GTTTGAAACC AGTAGTCACA GCTGTTCAAG	60
	GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG TACTTTACTC ACCTATTGTT GTCGCTGCAA	120
35	GTGAAACATA TATCGGTCTT GTTGAAGCAG GTGTTGGCTT ATTACCGAGT GGCGGTGGCC	180
	TTGCAGAAAT GGCTGATCGC ATATTACGCA CATCGCATAA GTTTGATGAC AAACAAGCTT	240
	CCATGACAAA AGTACTGACG AATATCGCAT TGCGAANGCT CTACAAATGC CTTTGAGGCA	300
40	CGTCGTATGG GTATTTACCG TGGATACAGA TACGATAATT TCCAATACAG CACAACGnGT	360
	CGAAGTGGCG C	371
45	(2) INFORMATION FOR SEQ ID NO: 4172:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(D) IOIODOI. LINCUL	

2855

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4172:

e e	GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA GACAGGATTC GAACCTGCGA	120
	CCCCTTGGTC CCAAACCAAG TGCTCTACCA AGCTGAGCTA CTTCCCGTAT AATTAACGCG	180
5	CCCGATAGGA GTCGAACCCA TAACCTCTTG ATCCGTAGTC AAACGCTCTA TCCAATTGAG	2.40
	CTACGGGCGC ATATGTTTTT ATTGAAAATn GTGCCGAGGA CCnGAATGAA CCGGTACGTG	300
	ATCATTACCG CAGATTTAA GTCCTGTGCG TCTGCCAGTT CCGCAnCCCG GACTATAAAA	360
10	T	361
	(2) INFORMATION FOR SEQ ID NO: 4173:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4173:	
	GTACAGATGC ATTGTTAAAC AATCAGTTGC AACAGCTGTT GAAACTGGTA GAGTATCTAA	60
25	TGGTGATTTA ATCATTATTA CTGCTGGTGT ACCAACTGGT GAAACTGGAA CTACTAATAT	120
	GATGAAAATC CACCTAGTTG GTGACGAAAT TGCTAATGGT CAAGGTATTG GACGTGGATC	180
	AGTTGTTGGT ACTACGTTAG TTGCTGAAAC TGTTAAAGAT TTAGAAGGTA AAGATTTATC	240
30	TGACAAAGTT ATCGTTACTA ACTCCATCGA TGAAACGTTT GTACCTTATG TAGAAAAAGC	300
	TTTAGGCTTA ATTACAGAAG AAATGGTATT nCACACCCAG TGCCATGGTT GGTTAGGAAA	360
35	AGNAATCCCA CCGTTGTANG	380
	(2) INFORMATION FOR SEQ ID NO: 4174:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4174:	
	CGATTGGATT GCACGTCTAA GCAGTAAGGC TGAGTATTAG GCAAATCCGG TACTCGTTAG	60
	CTGAGCTGTG ATGGGGAGAA GACATTGAGT CTTCGAAGTC GTTGATTTCA CACTGCCGAG	120
50	AAAAGCCTCT AGATAGAAAA TAGGTGCCCG TACCGCAAAC CGACACAGGT AGTCAAGATG	180
	AGAATTCTAA GGTGGAGCGA GCGAACTCTC GTTTAAGGAA CTCGGGCAAA ATGGACCCCG	240

	GCCCAAGCGC TGTTTATCCA AAACACAGTC TCTGCTHAAC CGTAGGGGAT TGTATAGGGG	360
	CTTACGCCTG CCCGGTGCCT GGAAGGTTTA AAAGGGTGGT	400
5	(2) INFORMATION FOR SEQ ID NO: 4175:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4175:	
15	AGCCATGGCT CAGCGAGGTA GGACTCGAAC CTACGACCGA TCGGTTAACA GCCGATAGCT	60
	CTACCACTGA GCTACTGTGG ATTAATATTA TGCCTGGCAA CGTTCTACTC TAGCGGAACG	120
20	TAATTCGNAC TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT	180
	GTGACCTCCT TGCTATAGTC ACCAGACATA TGANTGTAAT TTATACATTC AAAACTAGAT	240
	AGTAAGTAAA AGTGATTTTG CTTCGCAAAA CATTTATTTT GGATTAAGTC TTCGATCGAT	300
25	TAGTATTCGT CAGCTCCACA TGTGCACCAT GCTTnCCACC TCGAACCT	348
	(2) INFORMATION FOR SEQ ID NO: 4176:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4176:	
	CATTITITA AAATAATACC AATCTCATTI TIAAATTCTA AACTTGGTTT CGTATAATAC	60
40	GCTCTTAAAT CTTTAAATTT AGGATTTATT TCTGTTGGTA CTTGTTTTGT GGTTGGCGAT	120
	TGTGGTGTGT CTGATTTAGT AGATTGCATT GGTTGTGGCG TGTTTGTTGA TGGAGGTGTT	180
	GTCACTTTAG TTGAAGGCGG TGTTGTCGCA TTTGCTGTTT GTTGCGGTGC TTCTACTTTA	240
45	GTTGAGGGCG GTGTTGTCGC GTTTGGTTTT GATTGCGGTG CTTCTATTTT AGTTGAGGGC	300
	GGTGTTGANT GTGGTGCTTC CACTTTAGGG NAAGATNAGT GGTG	344
	(2) INFORMATION FOR SEQ ID NO: 4177:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 362 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 4177:	
5	CAGAACCTTG NAATGAATCG CGATGGAATA TCTCTATCTG NAAACAGATT TCTTTTTGTC	60
	CGCCAATGGC CTTGGAATTG TTTAAATAAA TCTATTTGCG CTTCTTTATC AATGTCATAA	120
,	CCTAATGCTT TTAACTTCTC TGAGAAGCGT GTTTACCAGA TAATTTTCCT AATGGAAGTT	180
10	CAGTCGTGCT TACACCAACA AGTTGAGGTG TCATAATTTC ATATGTTTCA CGATGTTTTA	240
	ATACGCCATC TIGGIGAATA CCIGATICAT GACTAAATGC ATTIGGCCAA CAATTGCTTT	300
	ATTTCTAGGC ACTCGAATAC CTGCATATCT TGADATTAAA TCCGAGGTTT TAGTTCCTCG	360
15	AG	362
	(2) INFORMATION FOR SEQ ID NO: 4178:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4178:	
٠.	GGAGCTAATA CCGGATAATA TTTTGAACCG CATGGTAAAG nTGGAAAGAC GGTCTTGCTG	60
30	TCACTTATAG ATGGATCCGC GCTGCATTAG CTAGTTGGTA AGGTAACGGC TTACCAAGGC	120
	AACGATGCAT AGCCGACCTG AGAGGGTGAT CGGCCACACT GGAACTGAGA, CACGGTCCAG	180
	ACTCCTACGG GAGGCAGCAG TAGGGAATCT TCCGCAATGG GCGAAACTTn ACGGAGCAAC	240
35	GCCGCGTGAG TGATGAAGGT CTTCGGATCG TAAAACTCTG TTATTAGGGG AGGACATATG	300
	TGTAAGTAAC TGTGCACATT TTTGACGGTA CCTNATCAGG AAGCCACGGT TTACTAGGGG	360
	CCCAGAAGCC CCGGTTAATA CGTGGGTGGG NAAGGGTTTT	400
10	(2) INFORMATION FOR SEQ ID NO: 4179:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4179:	
	GTTGTTTCAG CAGCGACACA GTGTATTCCA TTCTTAGAAA ATGATGACTC AAACCGTGCA	60

	GTTGGTACAG GTATGGAACA CGTTGCAGCA CGTGATTCTG GTGCGGCTAT TACAGCTAAG	180
•	CACAGAGGTC GTGTTGAACA TGTTGAATCT AATGAAATTC TTGTTCGTCG TCTAGTTGGA	240
<i>5</i>	AGAGAACGGC GGTTGAACAT GAAAGGTGGA TTAAGATCGC TATCCATTAG CTAAATTTAA	300
	ACGTTCAAAC TCAGGTACAT GTTACAACCA ACGTCCAATC GTTGCCAGTT GGGAGATGTT	360
10	GTTGGnnnTA C	371
	(2) INFORMATION FOR SEQ ID NO: 4180:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4180:	
	AAAGGGAATC GAATTTTCTT TCTCTTCCTC CGGGTACTAA GATGTTTCAG TTCTCCGGGT	60
25	GTGCCTTCTG ATATGCTATG TATTCACATA TCGATAACAT GACATAACTC ATGCTGGGTT	120
	TCCCCATTCG GAAATCTCTG GATCAAAGCT TACTTACAAC TCCCCAAAGC ATATCGTCGT	180
	TAGTAACGTC CTTCATCGGC TTCTAATGCC AANGCATCCA CCGTGCGCCC TTAATAACTT	. 240
30	AATCTATGTT TCCACCATTT TTATAAGTCA AACGCTCACA TACGGCTTCG TTTTCATTAT	300
	nThAAATGCT CATTTACATA AGTAAACTCT GCTTTAAAAT AATT	344
	(2) INFORMATION FOR SEQ ID NO: 4181:	.*
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4181:	·
45	CCGTGATCGG AAGGTGCGGC TGGATCACCT CCTTTCTAAG GATATATTCG GAACATCTTC	60
	TTCAGAAGAT CGGGAATAAC GTGACATATT GTATTCAGTT TTGAATGTTT GTTCATTCAA	120
	ATTAATGGGC CTATAGCTCA GCTGGTTAGA GCGCACGCCT GATAAGCGTG AGGTCGGTGG	180
50	TTCGAGTCCA CTTAGGCCCA CCATTAATTT AATACCTATT TGGGGGCTTA GCTCAGCnGG	240
	GAGAGCGCCT GCTTTGCACG CNGAGGTCAG CGGTTCGATC CCGCTAGTCT CCACCATTAT	300
55	TTGTACATTG AAAACTAGAT AAGTGANGTA AAAATATAGA TTT	343

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4182:	
10	CAGAGCCAAC TCGTATGTGA TTTGTCTGCG CCAATGTATG CATCATCAAA AGTTCTGGAC	60
	TACTACACGC AAACGCTGGT ACATTATGAT GTTCCGTAAA CCAAATTCGC TTAAAGCCAA	120
15	GTCGATCTGC TAATTTTGCA AGTGTCACTG AATCTTGCAA TGCCTTTTGT GCATCCTTAC	180
	CTTCATCTAT TAAGGCATAG TCTAATACGC TTAATTTAAC CAATCCGTCA TCTCCAAACT	240
	TATCCTGTCA TGTCAAACCG ACATAACATT TTAGCGTCTT AATACCATTC CCTCTTCATA	300
20	TACCCACGTA TATGATAACG TTTTCAATAA CTTTATATCT TTCGCCTTAT TTnCTTTTCA	360
	TATCATATIT CAGACTACAA ATGCATCATA GTTAATTAAA	400
25	(2) INFORMATION FOR SEQ ID NO: 4183: (i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4183:	
3 5	AAAGTATGAA AGATGGTAGT GACGCGGTTG GTGATTGGGC TGTATTGAAT GCACTCATTA	60
	ACACAGCTGC AGGTGGTTCA TGGATTTCAT TCCATCACGG TGGCGGTGTT GGCATGGGAT	120
	ATTCACTTCA TGCGGGTATG GTTGTTGTAG CAGATGGATC AGAGCGTGCT GAAGGAAGAT	180
40	TGGAACGTGT ATTGACGACT GACCCAGGTA TGGTGTTGCC CGACATGTTG nATGCTGGCT	240
	ATGACATCGC TATTCAAACA GCTAAAGAAA AAGGTATTCA NATTCCAATG ATTGGTGAAA	300
45	GCAGGTGATA AGTAATGAAT GATTTAATAT TAATCANATA GCAGANTATT TTTACCGGGT	360
	CCAACAGATA AACCTTTGAA GGGTTAGGTA TTAGATGCAT	400
	(2) INFORMATION FOR SEQ ID NO: 4184:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4184:	
	TTCCCTGTGC ATCGGCATCA CTATTATTAG CATGACTCAA TTATTGGCAT CACAATATGT	6
5	CATTGCAGTT ATCATTGGTT TCGTCATATG TGCGATAGGT AATGGTTTAG TCGCAACACC	12
	TGGACTTACG ATTGCAATTT TCAGTATGCC TAATGARAAA GTTGGTTTAG CTACAGGATT	180
	ATATAAAATG AGTGGTACAT TAGGTGGCTC CTTTGGTATA GCACTAAGTA CTACAGTTTT	240
10	CAGTATGTTA CAACTAAACT ATGCACCAAG TGTAGCTGCA ACCGTAACAT TTATAGTCAG	300
	CATTGTATTG ATGITCCTTG GGTICATTGT CTGCATACAT GA	34:
15	(2) INFORMATION FOR SEQ ID NO: 4185:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4185:	
25	AAGCATACTC TGAAGCGGTG AACAAAAATA GAACAGATCA CATTAGACAT TTACTTGAAT	, 60
`.	TTAAAGCATG TACACCGATT GACATCGACC AAGTTGAACC GGTAAGTGAC ATTGTCAAAC	120
3 <i>0</i>	GCTTTAATAC AGGGGCGATG AGTTATGGAT CGATTTCAGC GGAACACATG AAACGTTAGC	180
	ACAAGCCATG AACCAATTAG GTGGAAAGAG TAATAGTGGT GAAGGTGGCG ANATGCAAAA	240
	CGTTATGAAG TACAAGTTGA TGGAAGCAAC AAAGTAAGTG CGATTMAACA AGTTGCTTCT	300
35	GGGCGTTTTG GTGTACTAGT GATTATTTAC CACCTGCCAA GGAATTCCAA TTANACTTGC	360
	(2) INFORMATION FOR SEQ ID NO: 4186:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4186:	
	CCCAAGCGGA ATTCTAAAAT GATCGTCGCT CCATTCTTCA TTTTAATAAA TCCAAACGCA	60
50	GAATCTTCAA CTGTAAATTC ATCTGGATTC CATGAACCCC AAGCGTTTGC CGCATGATGC	120
	TGTTTATTTA ATTTATGGAA TGTTGAACCC ATCACTGATT CTGGTTCATA ATTATCCATC	180
	ATCCATAACG TTAAATCTAA AGCGTGTGTA CCGATATCGA TTAATGGTCC TCCACCTTGG	240

	nctitecgaa gitaaatgie teetaagieg eeacgiigge geigeeigga iggaaaatig	360
	GACGATCTGC TCGGGAAACG AATTTGGATA AAChGATGGG	400
5	(2) INFORMATION FOR SEQ ID NO: 4187:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4187:	
-	GAATCATCTG GCAACCNCCC CCAAAGAAGG TAATAATCCT GTAGTCGAAA ATGTTGTCTC	60
	TCTTGAGTGG ATCCTGAGTA CGACGGAGCA CGTGAAATTC CGTCGGAATC TGGGAGGACC	120
20	ATCTCCTAAG GCTAAATACT CTCTAGTGAC CGATAGTGAA CCAGTACCGT GAGGGAAAGG	180
	TGAAAAGCAC CCCGGAAGGG ATGTGAAATA GAACCTGAAA CCGTGTGCTT ACAAGTAGTC	240
	AGAGCCCGTT AATGGGTGAT GGCGTGCCTT TTGTAGAATG AACCGGCGAG TTACGATTTG	300
25	ATGCAAnGTT AAGCAGTACA TGTGGAGCCG TAGCGAAAGC GANGTCTGA	349
	(2) INFORMATION FOR SEQ ID NO: 4188:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4188:	
	TGGATCCTGA GTACGACGGA GCACGTGAAA TTCCGTCGGA ATCTGGGAGG ACCATCTCCT	60
40	AAGGCTAAAT ACTCTCTAGT GACCGATAGT GAACCAGTAC CGTGAGGGAA AGGTGAAAAG	120
	CACCCCGGAA GGGGAGTGAN ATAGAACCTG AAACCGTGTG CTTACAAGTA GTCAGAGCCC	180
45	GTTAATGGGT GATGGCGTGC CTTTTGTAGA ATGAACCGGC GAGTTACGAT TTGATGCAAG	240
-10	GTTAAGCAGT AAATGTGGAN CCGTAGCGAA ACGAGTCTGA ATAGGGCGTT TAGTATTTGG	300
	TCGTAGACCC GAAACCAGGT GATCTACCCT nGGTCA	336
50	(2) INFORMATION FOR SEQ ID NO: 4189:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4189:	
5	CAAAGGATGT TAAGAAATAC AATTTATTAC CCAGCATTTA ATAATGGTGC TATAGAAGGA	60
J	ATTAATAATA AGATAAAATT AATCAAGTGA ATTTCTTTTG GTTACAGAAA TTTCAACAAC	120
	TTTAAAGCAC GTATAATGAT GATTTTCAGC TTGTACAAAG GAGAAAAAAA GAAGACAACC	180
10	AAGCCCAATA ATGGACTGGC CGCCTAATAA TAAAAGCTCT AAAAGTTGTA TTTTAAAAAT	240
	AGTTCTTTAA ATTATATACC CACCACATTT GGTGGAGGAC CTAAAAAAAA GCACTTCCCC	300
	AAAAATGGGA AAGTGCAAGT AGTGAGCCnT AGGAGGGTTC GGACCCTCTn nCCCCTCT	358
15	(2) INFORMATION FOR SEQ ID NO: 4190:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4190:	
	TCACCAAGTT GAGCAAAGAA GATGTTCTGC GTACCTTGAA CTAAGTGCCC TTTGACTTCT	60
	AANGTACCAC CAAGTGCCGT CTGCCAAAAC GGTAAGTAAA AAATATGGTG TAAACCGAGT	120
30	GGACCTAACA ATCTTAAGAT GAAGCCATAA ACAAAAGTAC CGATGGCACC TGTTTTCGTT	180
	ACAAATCCAC CAACATGATA AATGCCGGCT TGTATGCTTG GCCAAATGAA AAACATCAAT	240
<i>35</i>	ACACCTAAAA AGATTGCGGC AAATGCTGTG ACAATAGGGA CANATGTAGA GCCACCAAAG	300
33	AAACCTAAAT ACGGTGGTAA TACCATTTGT GnTATTTGTT GTGAAGTATT GCGGTCATAA	360
	TA	362
40	(2) INFORMATION FOR SEQ ID NO: 4191:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4191:	
50	TGATCACCCA TGTTCTGGAC TCCCAATTGA AATTGAATTG	60
	nattcggtaa cccgngcagg gtcccctcgt gccaaacagt gctctacctc caataatcat	120

	NATITCTCCG CTAACCTCAG TTCATCCGCT CACTTTTCAA CGTAAGTCGG TTCGGTCCTC	24
	CATTCAGTGT TACCTGAACT TCAACCTGAC CAAGGTAGAT CACCTGGTTT CGGGTCTACG	30
5	ACCAAATACT AAACGCCCTA TTCAGACTCG CTTTCGCTAA GGCTCCACAT TTACTGCTTA	36
	AC	36:
	(2) INFORMATION FOR SEQ ID NO: 4192:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4192:	
20	CGTGTATTAT GCCTTCTACA TTGGCCATTA TGAAAACTTA TTATCAGGGT GCTGAACGTC	60
	AGCGTGCCTT AAGTTATTGG TCTATCGGTT CTTGGGGTGG CAGTGGTATC TGTTCACTCT	120
25	TCGGTGGTGC AGTTGCGACA ACTATGGGTT GGAGATGGAT TTTCATCTTC TCAATTATCG	180
23	TTGCCGTACT TTCAATGTTA CTCATCAAAG GGACGCCTGA AACGAAATCA GAAATTACCA	240
	ATACACATAA ATTTGACGTT GCAGGGCTAA TTGTTCTAGT AGTATGTTGC TAAGTTAAAC	300
30	GTTGTCATTA CTAAAGGTGC AGCACTTGGn TACACATCAT TATGGGTCTT GGGTTGAATG	360
•	CCAATCGGAA ATTGTAGCAT CHTTAATTTC CTAAAAGGTG	400
	(2) INFORMATION FOR SEQ ID NO: 4193:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) Torobodi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4193:	
	AATCCCATGG ACCCTCAAAT TCTTTATCTA AATAGTACCC TAATGAAGTT TTTCTGTGCA	. 60
45	TGTGATTAAT TTCATGTAAA CCGATGACAC CAACTAGCGT TCCTTCATAC CAAATGCCAC	120
	ACTGAAATCC ATTACCATCA GCAAATTGCA AAAGTCCTCT TTTAATAAAT GCACGCGTAT	180
50	CTGATGGTTG CTCAGTTGCA TCTACCCAAG GTAACCATTC CCTAAGTGAA TTTCTTGAAC	240
	GATTGACTAA ATTGAAAAGC GCTTCTGTGT CATGAGCTTC TAAAATTTTA ATGTTATTGT	300
	TCAATCACTT TCATTCCAAA CATACNATCA CATCCTCATT CATTNTCATA TAATCCGGNA	360
<i>55</i>		200

	(2) INFORMATION FOR SEQ ID NO: 4194:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4194:	
	ACAAAGGACG ACATTAGACG AATCATCTGG AAAGGAATC AAAGGTAATA ATCCTGTAGT	60
15	CGAAAATGTT GTCTCGAGTG GATCCTGAGT ACGACGGAGC ACGTGAAATT CCGTCGGAAT	120
	CTNGGAGGAC CATCTCCTAA GGCTAAATAC TCTCTAGTGA CCGATAGTGA ACCAGTACCG	180
	TGAGGAAAGG TGAAAAGCAC CCCGGAAGGG AGGTGTAAAT AGAACCTGAA ACCGTGTGCT	240
20	TACAAGTAGT CAGAGCCCGT TAATGGGTGA TGGCGTGCCT TTTGTAGAAT GGAACCGGCG	300
	AGTTLACGAT TTGGATLGCA AGGTTAAGCA GTAAATGTGG GAGCCGTA	348
	(2) INFORMATION FOR SEQ ID NO: 4195:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30 .	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4195:	
3 5	AAGGCAGATG CTCTCCCAGC TGAGCTAATT CTCCGATTTA AAACTGCCTG GCAACGTTCT	60
	ACTCTAGCGG AANTAAGTNG GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG	120
•	CATGGGAACA GGTGTGACCT CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA	180
40	TTCAAAACTA GATAGTAAGT AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAG	240
	TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC TCGAACCTAT	300
45	TAACCTCATC ATCTTTGAGG GATCTTATAA nCGAGTTGGG	340
	(2) INFORMATION FOR SEQ ID NO: 4196:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•

	TTTGCAGGTG GCGGTGCGAC TGCAGAAGAC GTTAAATTAA TGAAAGATAC AGTAGGTGCT	60
	GATGTAGAAG TAAAAGCATC AGGTGGCGTA CGTAATTTAG AAGATTTCAA TAAAATGGTT	120
5	GAAGCAGGTG CGACACGTAT TGGTGCGAGC GCnGTGTTCA AATTATGCAA GGTTTAGAAG	180
	CAGATTCAGA TTACTAATAT ATATMAATMT TGGGAGTGAT AGCTATGACA AGACCATTTA	240
10	ATCGTGTACA TTTAATCGTA ATGGATTCAG TAGGTATTGG TGAAGCGCCA GACGCAGCTG	300
10	ATTTTAAAG ATGGAGGTTC ACATACTTTT A	331
·	(2) INFORMATION FOR SEQ ID NO: 4197:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4197:	•
25	GTAGACGTCC CGATAGCCGT TACGCATGGT TACGATGTGT ATTGGTGTCG GCATGGGTGC	60
25	AGCTGCTATA TTTGAATATG TGCGTTAGAA TGGTTGATTT TGGATGAAGC GGATTCGTTT	120
	TGTTATTGAA TGAAGTAGGC TGAAGTTGAA GCCAGTTGAA GTTGAAGCGG GTTGAAGCAA	180
30	TTTCGTTTTA TTGAATGAAG CTGTGTGAAA TATAGTGATT GAACAAAAA AGTGGTTTAA	240
	TGGGATGGTG GTTATTTCCG TTTTAGAATT TAACATTTAC ACGTCTAATT TTAAATCATT	-300
	GTTTTAAATT TTATGAATCG AAGCCCTTTG GATTTAATAN TATTGCTAAT GCNAGTAACT	360
<i>35</i>	natctgattg t	- 371
,	(2) INFORMATION FOR SEQ ID NO: 4198:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4198:	•
	GCGACCCCAA CCTTGGCAAG GTTGTnATTC TACCGCTGAA CTACTTCTGC ATATGCGGGT	60
50	GAAGGGAGTC GAACCCCCAC GCCGTAAGCT NAGNATCCTA AGTCTAGTGC GTCTGCCAAT	120
	TCCGCCACAC CCGCAAATGG TGAGCCATAG AGGATTCGAA CCTCTGACCC TCTGATTAAA	180
	AGTCAGATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA	240
<i>55</i>		

	TAAGAATAAA TGGTGGAGAA TGACGGGTTC GNACCGTCGA CCCTGTGCTT GTTAAGGCAG	360
	ATGGTTTTCC CACTGGGGTA AATTTTCCGA TTTAAAAATG	400
5	(2) INFORMATION FOR SEQ ID NO: 4199:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4199:	•
	ATCAGTTGCT GTTGCGCCTT GTGGTAATGA ATTTACTAGT CGTACACCAA TAACCTCTGG	60
	AATTGGGAAA TAAGAAGGTT GTCCAAGCAT TCCAGCTTCA GCTTCAATAC CACCAACACC	120
20	CCATCCTAGT ACGCCAATAC CATTTATCAT TGTTGTATGT GAATCAGTAC CAACTAATGT	180
	ATCTGGAAAT GCAGTTTTT CACCATCTAC ATCACGAACA TGTACAACAC TTGCTAAATA	240
	TTCTAAGTTA ACTTGGTGAA CTATTCCAGT TGCAGGAGGG AACTGCATTG TAATTATCAA	300
25	ATGCTTTCGG TTGGCCCAAT TTAAAAAACT GGATAACGTT CATnGTTACG TTCCAATTCC	360
	TAATTTCCnA ATTACGGTTC CANGAGCTTC TGGGATTTTG	400
30	(2) INFORMATION FOR SEQ ID NO: 4200:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4200:	
40	CAACCTTTAT TGGTAAAAAC ACCCCAGCCA GGCACTTTAC GCCTACGCAT CGCTTGTACA	60
	CGTGCTACTA NAGGTTTACC AACCACACCT GATTCAATTG CTTTTTTAGC AGTAATTGCC	120
45	ACATCTGTGT GACGATAATG ATATGCGACA GTTAATAATT TGTGATTTTT ATTAGCCGCT	180
	TCAATCATGC GATCACACTC TTCCGTCGTC ATCGCCATTG GCTTTTCACA CAATACATGG	240
	CACACCATGG TTCAATGChT CTATAGAAAG ATCAGCAGGA ATTTATTAGG TGTACAAATG	300
50	ACCCATCAAC AAGTTTAAAC AGCTCGCTAG GTGnC	335
	(2) INFORMATION FOR SEQ ID NO: 4201:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4201:	
	ATGATGTGGC GGTGGTGAAA TCAGACCGAT ACCTGGCGTT GACCCTCTTG TCTTCGCAAT	60
10	CCACGGATAT ACCTTAGTAC CAGGTAATTG ACCACCTTCA CCAGGCTTTG CACCTTGCGC	120
	AACTITAATT TGAATTTCTT TGGCATGTTG TAAATAATCA CTAGTTACAC CAAAACGCCC	180
	AGAAGCAACT TGTTTAATCG CACTTACTTT GTTGCTTCCA TCAACTTGTA CTTCATAACG	240
15	TTTTGCATCT TCGGCAACTT CACCACTATT ACTCTTTCCA nCTAATTGGG TCATGGGCTG	300
	TGCTAACGTT TCATGTGCTT CCGnTGnAAT CGATCCATAA CTCATCGGCC CCGTATTAAA	360
	GCGGTTGGAC	370
20	(2) INFORMATION FOR SEQ ID NO: 4202:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4202:	
	CAGCTAGCGA CTTACCTTGA CGTTTTGnGT ATTCATTCCA GCTTTGTnGG AATGAGLCGG	60
	GATATAAGCA TCTTTAGATA ATGCACCATC AACTAATGGA TATTTATGTC CAGTTGGAGC	120
35	CAGAAATCAT AAACGTCTTC AGTGTAAGCA ACAGCATCTT CaTTTAATGC CAAAATGCTT	180
	GGaTTAGTGC AATAACCATC GCAACTGNGC CANACCTTGT GTTGGCTCGC CGCCTGAATT	240
	CAATCCATAA CGTGCTGTAT CTGTAGCAAT AACTAATACT TTTTCATTCG GTCTAGTTGC	300
40	TARATAATCT TTAGCTAATT GAATTGCTGG TGTTGCAGCA TAACAAGCTT CTTTCATTTC	360
	AAAGCAGCGT GCAAAAGGTT	380
45	(2) INFORMATION FOR SEQ ID NO: 4203:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4203:	

	GACATGTCAC CAAGAGCATT AGAAGAAGTT ATTTACTTTG CTTCTTATGT TGTTGTAGAT	120
	CCAGGTCCAA CTGGTTTAGA AAAGAAAACT TTATTATCTG AAGCTGAATT CAGAGATTAT	180
5	TATGATAAAT ACCCAGGTCA ATTCGTTGCA AAAATGGGTG CAGAAGGTAT TAAAGATTTA	240
	CTTGGAAGAG ATTGATCTTG ACGAGGAACT TAAATTGTTA CGCGATGAGT TGGGAATCAG	300
10	CTACTGGGTC CAAAGACTTA CTCCGTGGCA ATTAACGGTT TAGAAGTTGT THGAATCATC	360
	CCGTAATCCA GGGTACCACC CTCCnnGGnT GGATTTAGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4204:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4204:	
25	AAATTCTTCC GCCCTGTAAT TCCTTAACCG CTTCAACGGC ATCGTNAATN TCTTACATTT	60
	AGATAAAGAT GCATTGCAAG ATATCGTCAA CTTATTATTA GACGATGTAC AAGTTACATT	120
:	AGACAAAAA GGTATTACGA TGGACGTTTC TCAAGATGCG AAAGATTGGT TAATTGANGA	180
30	AGGCTATGAT GAAGAATTAG GTGCACGTCC ATTAAGACGT ATTGTTGAAC AGCAAGTACG	240
	TGACAAAATT ACAGATTACT ATTTAGATCA TACAGACGTT AAACATGTGG ATATAGATGT	300
	TGAGGATAAC GAATTAGTCG TAAAAGGTA	329
3 5	(2) INFORMATION FOR SEQ ID NO: 4205:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. ,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4205:	
15	GGTAAACAAA AAACTTCCCT TTGGAAGCGA ATTATGGAGC GGAAGATAGG ATTTACACCT	60
	ATACCTCGTT CCGGGAAGGG CTGTTTCTAA AAGTTGAACT ACTCCCGCAA ATATTAAATT	120
50	ATGGAGCGGA AGATAGGATT TACACCTATA CCTCATTCCA GGAAGGAATG TATTCTAAGA	180
	GTTGAAATAC TCCCGCATTA TTATTAAATT ATGGAGCGGA AGTAGGATTT GCACCTATAC	240
	CONCOUNTAGE CARCOLOGIC MORPOWALLIA MORALOGICA CON CONTRACTOR A CONCOUNTAL A CONCOUNTAGE CO	200

(2) INFORMATION FOR SEQ ID NO: 4206:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4206:	
		6
	TACTTTGTGA ATCCAGAAAA CTTTGAGGAT GTCACTAATA GTGTGAATAT TACATTCCCA	
15	ARTCCAARTC ARTATAARGT AGAGTTTAAT ACGCCTGATG ATCAARTTAC ARCACCGTAT	12
	ATAGTAGTTG TTAATGGTCA TATTGATCCG AATAGCAAAG GTGATTTAGC TTTACGTTCA	18
	ACTITATATG GGTATAACTC GAATATAATT TGGCGCTCTA TGTCATGGGA CAACGANNAG	24
20	CATTTAATAA CGGATCAGGT TCTGGTGACG GTATCGATAA ACCAGTTGTT CCTGAACACC	30
	TGATGAGCCT GGTGAAATTG AACCAATCCA GGGATCAGAT CTGACCCAGG TCAGATCTGG	36
	CAGCGATCTA ATCAGNAGCG GTCAGATCGG GNAGGATCAC	40
25	(2) INFORMATION FOR SEQ ID NO: 4207:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 402 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4207:	
	AAAAAGTTGA GAAAAATGTT TGAATCAGCA AACGTTGTGC AATCGAAATT TCCACACCAT	6
	CAAAACCTGC TTTAATCGCG CGTAATGTAG CATCGCNGWK ACTGCTGAAT GATGCTATTG	12
40	ATTTTCTCAT GAGACATGGC GATAACATCG TGTTLCAATC GGTGAATGCA ATGWCATAGG	. 18
	GCTTGGTCCA TACACCTTTC CAAAATTTAA AATGGCTTGA TTTGAAAAAC GACCAGCATG	24
٠	CGCTACTGGG ATAATAGCGA GGCTACCATG TTGTTTCATC GTAGATCCCA TGTTAGTTAA	30
45	TCCAGGGATA CAACCATCAT GATCAATATT AAANCATATC CAACCATTGA CCATAAGGTC	36
	AATGTAACAC GCCGGTGACT TCATCCAGCT GAATAGACGC GT	40
50	(2) INFORMATION FOR SEQ ID NO: 4208: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4208:	
_	GAAGAGTTGC AGCAGCAGAT ACAATTTATC CATTCACTCA AGCTGAAAAT GTTTGGTTAC	60
5	CARACARARA TGACATCATC GARARAGCAR RAGRARCTIT AGRATTITAR TACATTITAR	120
-	AAGTTAACGA ATTAGCCGTG ATTTTAGTCT CATTGATTAA AATGAAATNG TTAATTTACG	180
10	AAATCTTAGG AGGGCAAAAA CGTGGGCATT TGAATTTAGA TTACCCGATA TCGGGGGAAG	240
	GTATCCACGA AGGTGAAATT GTAAAATGGT TTGTTAAAGC TGGAGGATAC TATRGGAAGA	300
	AGACGATGTT TTAGCTGGAG GTACAAAACC GATAAATCAG TAGTAGAAAT CCCCATCCAC	360
15	CAGCATCTGG TACnGGTAAG	380
	(2) INFORMATION FOR SEQ ID NO: 4209:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4209:	
	AATAAACCTC AGGCTATTCA ATGGCATACA AATTTAACGA ATGAGCGATT CACTACTATC	60
30	GCACATCGTG GCGCAAGTGG CTATGCACCC GAGCATACGT TTCAAGCATA TGATAAGAGT	120
	CATAATGAGT TAAAAGCATC TTATATCGAA ATTGATTTAC AACGTACCAA AGATGGCCAT	180
	TTAGTTGCTA TGCATGATGA AACTGTTAAC CGTACAACAA ATGGACACGG TAAAGTTGAG	240
35	GATTATACCC nTGATGAATT ANAACAGTTA GATGCAGGAA GTTGGTTAAT AAAAAAATATC	300
	CHARATACGC CAGAGCAGTA TTARAATGCT ARAGTACCAC TTAGGTGGAR TTTAGGACGT	360
40	ATTGGCCCGA TGCCAACnTT TATATTGAAC CAAGCACCTG	. 400
10 .	(2) INFORMATION FOR SEQ ID NO: 4210:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4210:	
. •	GCCCACAACC ACAAAGGCTG TAGGCTACAA ATATGGAGAC GGCGGGATTT GAACCCGCGT	6

	AAAAGTGATA AACAACCAAC ATGATGCTAG TTTGATTAAG TTTCTTCTAA ACAGACTTCA	180
	AACGGCATMG TTAGCATATC CTATTAAGGT TGAATCGCGT TAACAGCACA TAGGAAATGC	240
5	TGTTAGGCGA TGCAGAGTGC GATTAGGCAG CTACTGCGAA ATTATTGTnT GATTTGCCAG	300
	TTATTATAAA CTGTGTGGTG TTGATGACGA	330
	(2) INFORMATION FOR SEQ ID NO: 4211:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4211:	
	AAATCATCTT ATGACTGCTT TTTATTATAC TTTACATTTC TCGTTTCGTC AGATTCAAAC	60
20	GTTTTCACTT CGCCAAGCCA TCTTTCTTTG TGTTTGCTTT TATTTTGACG TTTTAGACAT	120
	AAAAAAAGAG ACCTTGCGGT CTCAATGnGG CTCATCGCAT CCACTTTTTG CCTGGCAACG	180
25	TTCTACTCTA GCGGAACGTA AGTTCGACTA CCATCGACGC TAAGGAGCTT AACTTCAGTG	240
	TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC CAGACATATG AATGTAAATT	300
	ATACATTCAA AACTAGATAG nAAGTAAAAG TGATTTTGC	. 339
30	(2) INFORMATION FOR SEQ ID NO: 4212:	237
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4212:	
70	GCGATGGTTG AAACATTGAC TGATATTAAA GAGTTTATGA ACCAAGTTGA GTCGCATAGC	60
	TAGTATGAAA CGTGGTGTGC GCATGGGAAC TATCAAGCTT TGAAGATGTG GTACTACATG	120
45	CGTTGAATTA GGGATCGGTA CTTTATATGA AGACGTGCTG CTTCCATTAA ATGAGTGATG	180
	CGATTTTGGC ATGAAGGTCA CCThAAATGT ACATTGTTGT AATAAAATTG CCTATAAAAT	240
	TTTTAGCACA TAAAATAAGA GGGGCCAnCC ATTTTAGACT ATAACAACGG TTGGCTCTTT	300
50	GAATTGTAAA AAGAAAACCA TACGCTATGn TATT	334
	(2) INFORMATION FOR CEO ID NO. 4212	

5	(A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4213:	
10	CTATGATTTC ACCGAGTCTC TCGTTGAGAC AGTGCCCAAA TCGTTACGCC TTTCGTGCGG	60
	GTCGTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT ATAGTTACGC CGCCGTTTAC	120
	TGGGGCTTCG ATTCGTAGCT TCGCAGAGTA NACCCACTCC TCTTAACCTT CCAGCACCGG	180
15	GCAGGCGTCA CCCTATACAT CACCTTACGG TTTAGCAGAG ACCTGTGTTT TTGATAAACA	. 240
	GTCGCTTGGG CCTATTCACT GCGGCTCTTC TGGGGCGTTA ACCCTAAAGA GCACCCCTTC	300
	Thccgaagtt tacggggtca ntttgccgag tt	332
20	(2) INFORMATION FOR SEQ ID NO: 4214:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4214:	,
	CGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTGGCT ACCATCGTCG CTAAAGACCT	60
	TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC TTACTCATTT	120
35	AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	180
	GCCAAGCCAT TTTTCTTTGT GTTTACTTTT TAHTTTGACG TTTTAGACAT AAAAAAAAAA	240
	GACCTTGCGG TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGGCAA CGTTCTACTC	300
40	TAGCGGAACG TAAGTTGGGT ACCATCGACG CTAAGAACCT TCTTGGANTG TGGACAACGN	360
•	TGG	363
45	(2) INFORMATION FOR SEQ ID NO: 4215: (i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	.
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4215:	

	TTATTTGTAT TGTATAGAGA GAAATAAAAA GADACCTTGT TTTACAAGGT TTCTAATACG	120
	TTATGTTATG TAAATAACAG TTAATTATAC CGGTGGTCGG GGTCGAACCG ACACTCCACA	180
5	AGTGGAACGG GGATTTTGAG TCCCGCGCGT CTGCCAATTC CGCCACACCG GCTTAATGGT	240
	AAACAAAAA CTTCCCTTTG GAAGCAATTA TGGAGCGGAA GATAGGATTT ACACCTATAC	300
10	CTCGTTCCGG GAAGGACGTG TTCTAAAAGT TGACTACC	338
10	(2) INFORMATION FOR SEQ ID NO: 4216:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4216:	
•	ACGGTGATCC CATAATGCTT GAACATCAAT TTCATCCATT AATGTTACAT GAGGTGCAGT	60
	ATGCTTAGAG TTAACCATTG CTTTCGCAAT TGCTCTACGC ATAGCAGGGA TTTTTTCAGT	120
25	TGTTTCTGGG AAGTCGCCTT CTAATGTTAC TGCTGCAGGT GCTGCAGGAG TTTCAGCAAC	180
	TTCTTCACTT GTAGCTGAAG CAGCTGATTC ATTTGAAGCT GTTGGTGCAC CACCATTTAA	240
30	GTATGCATCT ACATCTTCTT TTGTAATACG ACCATTTTTA CCAGATCCAG AAACTGCTTT	300
30	AATGNTAACA CCTnTTTCAC GTGCGTATTA CGACTGAAGG CATGCCTTAA CAGTCNGGTT	360
	CACCACTCTC AGTTGAGAGC ACAGGGCTGC nCGCTGGCGC	400
35	(2) INFORMATION FOR SEQ ID NO: 4217:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(wi) analyzing programmay and the No. 4017	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4217:	6 0
	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	. 60
	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
50	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
	TCTATGTTTC CATCCTACAG GAAACGCGTT ATTAATCTTG TGAGTGTnCT TTCGAACATA	300

(2) INFORMATION FOR SEQ ID NO: 4218:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4218:	
	GGCGCCCTCG TGCCAAACAG TGCTCTACCT CCAATAATCA TCACTTGANG CTAGCCCTAA	· 6 1
15	AGCTATTTCG GAGAGAACCA GCTATCTCCA GGTTCGATTG GAATTTCTCC GCTACCCTCA	12
	GTTCATCCGC TCACTTTTCA ACGTAATCGG TTCGGTCCTC CAnTCAGTGT TACCTGAACT	18
	TCAACCTGGA CCAAGGGTAG ATCACCTGGN TTCGGGTCTA CGACCAAATA CTAAACGCCC	24
20	TATTCAGACT CGCTTTCGCT GACGGCTCCA CATTTACTGC TTAACCTTGC ATCAAATCGT	300
	AACTCGCCGG TTGCATTCTA CAAAAGGCAC GCCATGCACC CATTA	34
	(2) INFORMATION FOR SEQ ID NO: 4219:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(vi) SECUENCE DESCRIPTION, SEC. ID NO. 4210	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4219:	
<i>35</i>	TCTTATGACT GCTTTTATT ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC	60
	ACTTCGCCAA GCCATCTTC TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAA	120
	AGAGACCTTG CGGTCTCAAT GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC	-180
40	TCTAGCGGAA CGTAAAGTTC GNACTACCAT CGACGCTAAG GAGCTTAACT TCTGTGTTCG	- 240
	GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGGAAT GTAAATTATA	300
45	CATTCAAAAC TAGATAGTAA GTAAAGTGGn TTTGCTTCGC AAACCNTTAT TTTGGTTAGT	360
45	CTTCGTC	367
	(2) INFORMATION FOR SEQ ID NO: 4220:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4220:	
	AAGAGCCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCACTT	60
5	ACTCATTTAG CTCTACTAAA CTCGTTGCGT TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	120
	TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTGCTTTTTA TTTTGACGTT TTAGACATAA	180
	naaaaagaga ccttgcggtc tcaatgcggc tcatcgcatc cattttttgc ctggcaacgt	240
10	TCACTCTAGC GGAANTAAGT CGAACTACCA TCGACGCTAA GGAGCTTAAC TTTCTGTGTT	300
	CGGCATGGGA ACAGGTGTGA CCCCCNTGGC TATAGTCACC AG	342
15	(2) INFORMATION FOR SEQ ID NO: 4221:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4221:	
25	ACCGGATGAC AGCCCCAGGA TGCGATGAGC CGACATCGAG GTGCCAAACC TCCCCGTCGA	60
	TGTGAACTCT TGGGGGAGAT AAGCLGTTAT CCCCGGGGTA GCTTTTATCC gTTGAGCGAT	120
30	GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT	180
	AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTTC CAACCATTCT	240
	GAGGGAACCT TTTGAGCGCC TCCGTTACCT TTTANGAGGC GACCGCCCCA GTCAAACTGC	300
35	CCGCCTGACA CTGTCTCnCA CCACGATAAG TGGCGnG	337
	(2) INFORMATION FOR SEQ ID NO: 4222:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4222:	
	GGCGCTTGAC TAAAAAGAAA TTGTACATTG AAAACTAGAT AAGTAAGTAA AATATAGATT	60
50	TTACCAAGCA AAACCGAGTG AATAAAGAGT TTTAAATAAG CTTGAATTCA TAAGAAATAA	120
	TCGCTAGTGT TCGAAAGACA TCCACCAAGn TTAATAACGC GTTTAAATCT TTTTATAAAA	180
	GAAAACGTTT AGCAGACAAT GAGTTAAATT ATTTTAAAGC AGAGTTTACT TATGTAAATG	240

	ACATAGATTA AGTTATTAAG GGCGCACGGT GGGTGCCDTG GCACTTAGAA GCCGCTGAAG	360
	G .	361
5	(2) INFORMATION FOR SEQ ID NO: 4223:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4223:	
	CGGTAGAATA CAACCTTGCC AAGGTTGGCG TCGCGGGTTC GAATCCCGTC TTCTGCTCCA	60
	TTATTTTGCC GGGGTGGCGG AACTGGCAGA CGCACAGGAC TTAAAATCCT GCGGTGAGAG	120
20	ATCACCGTAC CGGTTCGATT CCGGTCCTCG GCACCATTTT AGCGCCCGTA GCTCAATTGG	180
,	ATAGAGCGTT TGACTACGGA TCAAGAGGTT ATGGGTTCGA CTCCTATCGG GCGCGCCATT	240
	TTTAAATTAA TTGAATAACG GGAAGTTAGC TCAGCTTGGT AGAGCACTTG GTTTGGGGAC	300
25	CAAGGGTCGC AGTTCGAATC CTGTCTTCCC GATTACTCnT AAnTCCATTT AnGGGGGCTA	360
	GCTCAGTGGG GAGAGCGCTG CTTGCACGCA GGAGGTCACG	400
30	(2) INFORMATION FOR SEQ ID NO: 4224: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4224:	
40	CATAATATAC TCTTAAGTGT AAAGGGGAAT TTCCTGGGTA ATAATTCGCG TGTGCACCTT	60
	GAGTGACTTC TACCATTTTA TAGTCAAATT GCTTTAGTTC GTTTGGTTTA ACGCCGACAC	120
•	TCGCAAATGT ATAATCAAAG AACTTCACAA TATTGTTGCC TAAGAAGCCT TTGAATTCAA	180
45	TAGTGTCATT TCCAGCAATT TGTTCGGCAA CAATACTTGC TGCACGGGTG AGCGCCCCCA	240
	GnCAAAAGGA CCACTAGCCG GTAGAATCGA CATGTCGATA ATGTGATGGT TGCCAATAAT	300
50	CGCCTATTGC ATAATGTTTG GACCATTGGT TCCAAATTTA TCGTTACCGG TATGAAACCT	360
	TTCGATCCAG TTGGATAATT GAACTTCGNA AATTTGATTG	400
	(2) INFORMATION FOR SEQ ID NO: 4225:	

· ·

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4225:	
10	GGGTTCAATT TCTGCATACC AATCGATGCC AGCTCTATTT CTGACAATAT CCATATATTT	6
	TGAAATTTTC TCTAATTCTT TGCCACTAAC CTTTTCACCA TTCAACCAAA ATTGATCCTG	12
	TGTTAACTGG TCGTTAAAAG TGACTTTCGT TTCAGTGTAA AATTTTTCTA ATGTAACAGA	18
15	TATGCTATTA TTCATTGGAA TGATTAGTGC TTCATCTTTT TTACCCCAAT ATTTTATnAG	24
	TGCAATATTC GTATGTGCAC GTGCTTTGCC ACTnnTAATC AACGCATTAA CCTCCTAAAT	30
	TCTCAATCCA AGTATGTGCT GCACCAGC	32
20	(2) INFORMATION FOR SEQ ID NO: 4226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Totobodi. Tilledi	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4226:	
	TGACGGGTTC GAACCGCCGA CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA	6
	TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC GGAANGTAAG TTCGNACTAC	12
3 5	CATCGACGCT AAGGAGCTTA ACTNCTGTGT TCGGCATGGG AACAGGTGTG ACCTCCTTGC	180
	TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAGATAGT AAGTAAAAGT	24
	GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGTCTTCG ATCGATTAGT ATTCGTCAGC	300
40	TCCACATGTC ACCATGCTTC CACCT	325
	(2) INFORMATION FOR SEQ ID NO: 4227:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4227:	•
	GCGCAACTCA CACAACAAGG TGGCAATCAC TCTGAACAAA GTGCGGCAAn TTnTTCAACA	. 60
	GOURNETER CHURCHROW ISSUED TO TOTAL TOTAL TOTAL TITLE TOTAL	31

	AACCTTACGC AAGAAGCACG TGACGGTTTA TTAGATCCAG TCATTGGTCG TGGATAAAGA	180
	AATTCAAGNA ACTGCTGAAG TTTTAAGTAG ACGAACTAAA AACAATCCTA TATTAGTTGG	240
5	AGAAGCTGGT GTTGGTAAAA CTGCGATTGT TGGAAGGTTT AGCACAGGCA ATCGTTGGAA	300
•	GGAAATGTAC CAGCAGCAAT CAAAGACAAA G	331
	(2) INFORMATION FOR SEQ ID NO: 4228:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4228:	
20	AGAGGTCCGT TGCCTTACCG CTTGGCTATA GCCATTAATA ATAAGGGCGG CTGAAGGGGA	60
	TCGAACCCTC GAATGTCGGA ACCACAATCC GATGTGTTAA CnCTTCACCA CAGCCGCCAT	120
	GGCAGGGGCA GTAGGAATCG AACCCACACC AAAGTTTTGG AGACCTCTAT TCTACCGTTG	180
25	AACTATGCCC CTATTAAAAA TAATAAATGG AGGGGGGCAG ATTCGAACTG CCGAACCCGA	240
	AGAGCGGATT TACAGTCCGC CGCGTTTANC CACTTCGCTA CCCCTCCATA AATGGTGCCG	300
20	GCCAGAGGAC TTGnAACCCC CAACCTAATG GTT	333
30	(2) INFORMATION FOR SEQ ID NO: 4229:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4229:	
	CTCTTACTTT GTAAACCAAA TCTTAAATTA AAATATTGAA AATGCAATGN ATCCTTAATA	60
	TTTTATTAAA CCTATAATTA CTTATTAAAA ATAACACACA ATATTCATAA AGTTTTAAAA	120
45	ATATTCTGTT TTATCACCTA CTATTAGTGG AAAAGTACAA TTGCAATTGT ATATAGTTTG	180
	CATAACGCTT CAAAAGTAAT TTCTTTTTG TTTAGTTCAA AAAAATTTAG AGGTGATGTT	240
	ATATGAATAA CGGTTTTTTC AATAGCGACT TTGATTCAAT TTTTCGAGGA TGATGAAAGA	300
50	TATGCAAGGT TCAAATCAAG TCGGAAACAA AAGTACTATA TTNATGGTAA GGAGTTTCAC	360
	COMPANS CONTRACTOR OF A CONTRACTOR OF CONTRA	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4230:	•
10	CATTAACGGG CTCTGACTAC TTGTAAGCAC ACGGTTTCAG GTTCTATTTC ACTCCCCTTC	60
	CGGGGTGCTT TTCACCTTTC CCTCACGGTA CTGGTTCACT ATCGGTCACT AGAGAGTATT	120
15	TAGCCTTAGG AGATGGTCCT CCCAGATTCC GACGGAATTT CACGTGCTCC GTCGTACTCA	180
	GGATCCACTC AAGAGAGACA ACATTTTCGA CTACAGGATT ATTACCTTCT TTGATTCATC	240
	TTTCCAGATG ATTCGTCTAA TGTCGTCCTT TGTAACTCCG TATAGAGTGT CCTASAACCC	300
20	CAACAAGCAA GCTTGTTGGT TTGGGnTCTT GCCGTTTCG	339
	(2) INFORMATION FOR SEQ ID NO: 4231:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4231:	
	GAAGTCATAT GCATACACTT GGTTATCATT ATTCATACGT TCAATCGCAT CTGTTAACTG	60
<i>35</i>	AATTTCGTTA CCTGCGCCTT CTTTTTGCGT TTTTAAATAA TCGAAAATTT CAGGCGTTAA	120
	TACATAACGT CCCATAATAG CTAGGNTTGA TGGTGCCGTA CCTTGTGCTG GCTTTTCAAC	180
	AAACTTTTTC ACTTCAGACT GACGTCCGTn TTTAGTTAAT GGGTCAATAA TTCCATAACG	240
40	ATGAGTATCT GCTTCCGGAA CTTCTTGGAC ACCTATAACT GAGTGCCCTG TnTCTTCATA	300
	AACGTCAATC AACTGTTTCA CTGCTGGCAC TTCAGAGTCA ACAATATCG	349
	(2) INFORMATION FOR SEQ ID NO: 4232:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		

2880

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4232:

	CCAGGATGCG ATGACCGACA TCGAKGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG	120
_	GAGATAAGCC TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC CTTCCATGCG	180
5	GAACCACCGG ATCACTAAGT CCGTCTTTCG ACCCTGCTCG ACTTGTAGGT CTCGCAKTCA	240
	AGCTCCCTTA TGCCTTTACA CTCTATGAAT GATTTCCAAC CATTCTGAGG GAACTTTGAG	. 300
10	CGCCTCCGTT ACCTTTTAGG AGGCGACCGC CCAGTCAAAC TGCCCGCCTG ACACTGTCTC	360
	CCACCACGAT AAGGTCG	377
	(2) INFORMATION FOR SEQ ID NO: 4233:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4233:	
	GGCTAGCCTC AAGTGATGAT TATTGGAGGT AGAGCACTGT TTGGACGAAG GGCCCCTCTC	60
25	GGGTTACCGA AGTTCAGACA AACTCCGAAT GCCAATTAAG TTTAACTTGG GAGTCAGAAC	120
	ATGGGTGATA AGGTCCGTGT TCGAAAGGGA AACAGCCCAG ACCACCAGCT AAGGTCCCAA	180
30	AATATATGTT AAGTGGAAAA GGATGTGGCG TGGCCCAGAC AACTAGGATG TTGGCTTAGG	240
50	AAGCAGCCGT CATTTANAGA GTGCGTAATA GCGCACTAGT CGAGTGACAC TGGGGGGAAA	300
	GGGTACCGGG GCTGAACATA TTACCGAAGC TGGTGGGTTG TCCTTTGGAC AnTTn	355
35	(2) INFORMATION FOR SEQ ID NO: 4234:	
, 40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4234:	•
45 -	ATCCGCCTCC CGCAATATTT TATAGGTCTC GTAGTGTAGC GnTTAACACG CCTGCCTGTC	60
	ACGCAGAGAT CGCGGGTTCG ATTCCCGTCG AGACCGCCAT CATTACATTT TTATTATGGT	120
	TCAGTAGCTC AGTTGGTAGA GCAATGGATT GAAGCTCCAT GTGTCGGCAG TTCGACTCTG	180
50	TCCTGAACCA TTTCTTAGCC GGCCTAGCTC AATTGGTAGA GCAACTGACT TGTAATCAGT	240
	AGGTTGGGGG TTCAAGTCCT CTGGCCGGCA CCATTTATGG AGGGGTAACG AnTGGGCTAA	300

	TTAATAATTT TAATAAGGGG CATANTTCAA CGGTANAATA	400
	(2) INFORMATION FOR SEQ ID NO: 4235:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) 10F0L0G1: 11Hear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4235:	,
15	ATGCCATGTT CACCTTGTTT AAAATCAAGG TTTGTAATGT TTCCTTGTGT CACGATAATA	60
	GGCGTAATAT CACTCTTTGC ATGATTGCGG ATGTAGTCTA AATCAAAGTT GATTAATAAA	120
	TCACCTTCTT TAACTHITTG ACCTTCCTCA ACATGTAAAG TAAAGCCTTC TCCGTTTAAT	180
20	TTAACAGTGT CTAAACCGAT GTGGATTAAT AGTTCTAAAC CACTATCTGA TACAAGACCA	240
	ATTGCATGNT TTGTTGGGAA AATCATTTGT ACTTTACCGT TGAATGGTGC ACGAACTTCA	300
	CCTTGTGAGG TTTGATAGCG ATACCGTCAC CCATGCATTT T	341
25	(2) INFORMATION FOR SEQ ID NO: 4236:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4236:	
	GTTGATGCAG CCCGTTGAGC TCTAAACCAA CTGAGCTAAA GGTCCTAAAT ATAATTTTAC	. 60
	AACTAATAAA TAGTGGCGGT GGAGGGGATC GAACCCCCGA CCTCACGGGT ATGAACCGTA	120
40	CGCTCTAGCC AGCTGAGCTA CACCGCCTTA TATAGTTTGT AAATAATATG GTGGAGACTA	180
	GCGGGATCGA ACCGCTGGAC CTCCTGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAG	240
	CCCCCATAAT AATTACAGTA TATCGGGAAG ACAGGATTCG AACCTGCGAC CCCTTGGTCC	300
45	CAAACCAAGT GCTCTACCAA GCTGAGCTAC TTCCCGTATA ATTAACGNGC CCGTAGGAGT	360
	TGAACCCATG AACCTNTTGA TCCNTAGTNC AAACGGTCTA	400
	(2) INFORMATION FOR SEQ ID NO: 4237:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 376 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4237:	
	NANTTCTTGA CCTGACATCA CCTGAAATTG AATGGACATG GTCCACCAGG TCATATACTC	60
5 .	TAATCCATGG GTCGCCGATA CCTTCAACGn ACAACATCTA CACCACTATT TCTAATACAG	120
	AATCTTTCTC CTGCACTACC GTTAATAAAT GCCTTACCAC TTGTCGCACC ATAGAATGAG	180
10	ACGITACCAG CAATAATTTC ATTITGTCGT TCTTCAAAAG GTGCTTTGAC AATGACCGTA	240
U	CCACCAGATA ATCCTTTACC AACATAGTCA TTCGCATCTC CAGTATGATG AATCATTAAG	300
	CCTTTCGGTG CATATGCTGC AAGACTTTGA CCAGCATGAC CATTCGTATA AACATTAATT	360
5	GTATTTCAG GAAGTC	376
	(2) INFORMATION FOR SEQ ID NO: 4238:	•
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4238:	3
	CGATTTAAAG CTAAGCCCAT TTTCGCTCTT TCTCCATAGC CTAACCAAGC AATACGTGAT	60
	GGTAGTCCTT GATATGAAAT TTTTTCTTCA GCTAAATCAA GCCATCTTAA TAACTTTTCA	120
10	TTTTCTGGGA AAAGTTTGCG CATTTCTTCA TCCGCACGCT CGATATCTTT TGGATCACCA	180
	CTCAACGCAG CAAAGCGGAA TGGCCCTTTA CCTTCACAGA ATAATGGTCT AATGTAAGCT	240
15	GGTACAAAAG CTGGGAAGTC AMAAAGCATT TTTCACTCCG TATTGAAGGC TACTTGACGA	300
5	TATGNTACCA TAATCAATGC TACAGCGCCA CGTTG	335
	(2) INFORMATION FOR SEQ ID NO: 4239:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4239:	
	CCACANTTAC AAGCAACTAC TGAAGGCGCT GTATTTATTA AAGGTGGCGA CGGTTTTGAT	60
ю	TTCGGACACG TAGAAAGATT TATTCAAAAC CCGCCACATG GGGCAACGGT TGCATGGCAT	120

	TTACCTAATG GTCAAGGTAC GCGTAATGTT GAAGTTCCAG TCAAAGTTTA TCCAGTTGCT	240
	AATGCAAAGG CGCCATCACG TGATGTGAAA GGTCAAAATT TGCTGTTGGA CGGATGCGAT	300
5	GAACTACATT ACATTTGTCC ANTACAACAC AGATNGTATC ACTGCAGC	348
	(2) INFORMATION FOR SEQ ID NO: 4240:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 395 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4240:	
		60
	TTGATGTTAA AGATTTAGCA AGGGGCGAGA GAACTGGAGA AGAGGTTGCC AAACGAATGG	60
20	AACGTGCTTC TGTATTGGCC CAAGTAGATA TTCATCGTGC AGCAACACAT AATAAAGGTG	120
	TTATGAATGG CATACATGCT GTTGTTTTAG CAACAGGAAA TGATACGCGT GGTGCAGAAG	180
	CAAGTGCGCA TGCATTACGC GAGTTCGTGA CGGACAGTAT CGTGGTATTG CTACATGGCG	240
25	TTACGATCAA GATCGTTCAA CGATTTGATT GGTACATTGG AAGTGCCTAT GACATTGGCA	300
	ATCGTTGGCG GTGGGTACAA AAGTATTACC AATTGCTAAG CCTTCATTAG GAGNTACTAA	360
	ATGGTAGAGT CCGCCCCAAG AATTANGRCC CTGTA	395
30	(2) INFORMATION FOR SEQ ID NO: 4241:	•
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4241:	
70	ACTAATGATT TATTATGTAG TGGTTCTTTG TCATTAGCCA CAGCTATTGT GTACTTAAAA	60
	ATAGGAATGC ATGAGTGCAA CTCTANANGN AGCATACTAA TTTCTAAAGA AAAAGTATTT	120
45	CTTTATGTTG GGGCCCCGCC AACTTGCATT GTTTGTAGAA TTTCTTTTCG AAATTCTTTA	180
	TGTTGGGGCC CCGCCAACTT GCATTGTTTG TAGAATTTCT TTTCGAAATT CTTTATGTTG	240
	GGGCCCCGCC AACTAATTCC AATATATCAT TGTAGAGCTT AGGTCATTGA TTTTTGGCTC	300
50	GGACTTTAT GGCGATATGA ACCATGTAAA T	331
	(2) INFORMATION FOR SEC ID NO. 4242.	

(A) LENGTH: 389 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4242: TGCATTGCAT TATTGTACTG CGTAATTGTA CCTGGCTTTT TACCTTCAGT GCTTACTGGA TCATCTAAAT GATTTTTAGC TGTGATTAAC TCACGTTTAT CCGCTTTTGT GAAAATGGAC TCTTGTACTT CTTCAGTACT ACCATCATTG TAAGTTACTG TCACAGGAAT CGTCGTTGTG	60
10	TCATCTAAAT GATTTTTAGC TGTGATTAAC TCACGTTTAT CCGCTTTTGT GAAAATGGAC	
		120
	TOTTGTACTT CTTCAGTACT ACCATCATTG TAAGTTACTG TCACAGGAAT CGTCGTTGTG	. 120
	ICIICIACII EIICACIACI MCCAMONILO MANDICIA CONTROLLA CONT	180
15	CTACCACCAG CTAAATTAGT AGGCATTGCT GTGCCATTTT TAATCGTTGC AGTACGTTTA	240
	TTAGCAACTT GAACTGCATT GTTAATTTCA GCTGCTGTTA CATTTGAACC ATAATCTTTC	300
20	ACAATTnCAG TTGTGTTGAC AGATGAGNGG CGGTGCAGTA AGGACTGGAT ACACTACGAG	360
	TGACCGGACT GCTTCGGGNA ATGTGATGA	389
	(2) INFORMATION FOR SEQ ID NO: 4243:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4243:	
	ATACGCATGT TAACGATCGA ATGCTTAATG TCCCGGGAAA TAAATCTATC ATAAGTTACT	60
<i>35</i>	TTAATGAAGT TGTCTCACGA CAAGGTAATC ATGTTGCGCT ATCATGAATG ATTTGACAAT	120
	GACGTATGAA CATTACGCAA CTATGTGGAT GCCATTGCGC ACATGCTCCT ATCAAATGGT	180
40	GTGGGCAATG GTCAACGGGT TGCCTTGTTT ACAGAACGTn TTTTGGAAAT GATTGCGGCG	240
	ATGTTGGCGA CAGTTAAAGT AGGTGCATCT TATATACCTA TCGATATTGA TTTTCCGAAT	300
	AAACGACAAG GTGCAATTTT GG	322
45	(2) INFORMATION FOR SEQ ID NO: 4244:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4244:

	CAGTTCTCCG GGTGTGCCTT CTGTATATGC TATGTATTCA CATATCGATA ACATGACATA	120
5	ACTCATGCTG GGTTTCCCCA TTCGGAAATC TCTGGATCAA AGCTTACTTA CAGCTCCCCA	180
J	AAGCATATCG TCGTTAGTAA CGTCCTTCAT TGGCTTCTAG TGCCAAGGCA TCCACCGTGC	240
	GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA GTCAAACGTT AACATGAAGT	300
10	TACGTTCTTT TATAAAAAGA TTTAAACGCG TTATTAATC	339
	(2) INFORMATION FOR SEQ ID NO: 4245:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	:	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4245:	٠.
	CCATTAACGG GCTCTGACTA CTTGTAAGCA CACGGTTTCA GGTTCTATTT CACTCCCCTT	60
25	CCGGGGTGCT TTTCACCTTT CCCTCACGGT ACTGGTTCAC TATCGGTCAC TAGAGAGTAT	120
	TTAGCCTTAC GAGATGGTCC TCCCAGATTC CGACGGAATT TCACGTGCTC CGTCGTACTC	180
	AGGATCCACT CAAGACAGAC AACATTTTCG ACTACAGGGA TTATTACCTT CTTTGGATTC	240
30	ATCTTTCCAG ATGATTCGTC TAATGTCGTC CTTTGTAACT CCGTATAGAG TGTCCTACAA	300
	CCCCAACAAG CAAGCTTGTT GGTnTTGGGC nACTTCCCGG TTTCGGTTCG GCCGCnAA	358
	(2) INFORMATION FOR SEQ ID NO: 4246:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4246:	
45	AAAGAGACCT TGCGGTTAGA TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA	60
	CTCTAGCGGA ACGTAAGTNG ANCTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG	120
	CATGGGAACA GGTGTGACCT CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA	180
50	TTCAAAACTA GATAGTAAGT AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAG	240
	TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC TCGGAACCTA	300
·cc	TTAACCTCAT GCATCTTTGA GGGGRGCTTG ATAACCGA	338

, 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4247:	
	CCCCGGGTAG CTTTTATCCG TTGAGCGATG GCCCTTCCAT GCGGAACCAC CGGATCACTA	60
	AGTCCGTCTT TCGACCCTGC TCGACTTGTA GGTCTCGCAG TCAAGCTCCC TTATGCCTTT	120
15	ACACTCTATG AATGATTTCC AACCATTCTG AGGGAACTTT GAGCGCCTCC GTTACCTTTT	180
	AGGAGGCGAC CGCCCAGTCA AACTGCCCGC CTGACACTGT CTCCCACCAC GATAANGGCG	240
20	GGGGTTAGAA AGCCAACACA GCTAGGGTAG TATCCCACCA GCGCTCCACG TAACTAnCGC	300
20	TCACGTTTCA AAGNTCTACC TATCCTGTAC A	331
	(2) INFORMATION FOR SEQ ID NO: 4248:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4248:	
	ATAATCATAC AGATGGCAAT ACAACAGCAA CTGAGACAGT GTCAAACGCT AATAATAATG	60
<i>35</i>	ATGTAGTGTC GAATAATACC GCATTAAATG TACCAACTAA AACAAATGAA AATGGTTCAG	120
	GAGGACATCT AACTTTAAAG GAAATTCAAG AAGATGTTCG TCATTCTTCA AATAAACCAG	180
40	AGCTAGTTGC AATTGCTGAA CCAGCATGCT AATAGACCGA AAAAGAGAAG TAGACGTGCG	240
40	GCACCGGCAG ATMCCTAAAT GCAACTTCCA GCCAGATCCA GCGGCTGCAG CGGTAMGGAA	300
•	ACGGTGGTGC CACCAGTTTG CCAATTTACA GCGCCCATAT TACGCCAACA ACTGGTnCCC	360
45	TAATGCCCAA T	371
	(2) INFORMATION FOR SEQ ID NO: 4249:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATTGCATGG CATAACATCG GCGATTAAAA GATGGACGTT TTGATGATGT ACAACAAGAC	60
5	ATTGAAGCAG TGGTGAAAGC TGCGAAGGTC ACACAGTAAA AGTGATTATT GAGACGGTAT	120
J	TGTTGGACCA TGACGAAATT GTAAAAGCGA GTGAATTAAC AAAAGCGGCT GGTGCGGACT	180
1	TCGTTAAAAC TTCAACAGGT TTTGCAGGTG GCGGTGCGAC TGCAGAAGAC GTTAATTAAT	240
10	GAAAGATACA GTAGGTGCTG ATATAGAAGT AAAAGCTCAG GTGGCGTACG TATTATAGAA	300
•	GTTTCAATGA ANGGTTGAAG CAGGTGCGAC ACGTANTGGT GCGAGCGCAG CGTTCAA	357
	(2) INFORMATION FOR SEQ ID NO: 4250:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4250:	
25	GAGCCCAAAC CAACAAGCTT GCTTGTTGGG NGTTGTAGGA CACTCTATAC GGAGTTACAA	60
	AGGACGACAT TAGACGAATC ATCTGGAAAG ATGAATCAAA GAAGGTAATA ATCCTGTAGT	120
	CGAAAATGTT GTCTCTTTG AGTGGATCCT GAGTACGACG GAACACGTGA AATTCCGTCG	180
30	GAATCTGGGA GGACCATCTC CTAAGGCTGA ATACTCTCTA GTGACCGATA GTGAAGAAGT	240
	ACCOTGAGGG AAAGGTGAAA AGCACCCCGG GAAGGGGAAG TGAAATAGAA GCTGGAAACC	300
35	GGTGTGCTTA CAAGGTAGTC ANAGCCCGTT AATGGGTGAT GGCGTGCCTT TT	352
33	(2) INFORMATION FOR SEQ ID NO: 4251:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4251:	
45	CATTTACTGC TTAACCTTGC ATCANATCGT AACTCGCCGG TTCATTCTAC AAAAGGCACG	60
	CCATCACCCA TTAACGGGCT CTGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC	120
50	TCCCCTTCCG GGGTGCTTTT CACCTTTCCC TCACGGTACT GGTTCACTAT CGGTCACTAG	180
	AGAGTATTTA GCCTTAGGAG ATGGTCCTCC CAGATTCCGA CGGAATTTCA CGTGCTCCGT	240
	CGTACTCAGG ATCCACTCAA GAGAGACAAC ATNTTCGACT ACAGGATTAT TACCTTCTTT	300
<i>55</i>	COLNET CHOCKER CHARACTERS THEFT COLORS	·

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4252:	
	TATTTGATAT TTTGTGCATT GCAGTCAAAC CATGGCGGAA ATTGAACCAA TACCATTGCT	60
15	AATTTTTCT GTGTATGTAA GGGCTCTAAC ATATTCTTAA ATTGATCAAA TAGTTCTnGC	120
	CTTGTATCTG CAAATGTTTT GTAGTCTGCA TGCAATGTGA GTGCTTGATG AATTTTGACC	180
20	ACAAATTCAA ATGTATCAGG CGTTTCTTTT ATCCATTTCA ATATATTTCT TTCCGGTTGT	240
20	ATCGCATAGT ATGTCGCATC TAATTCGCAA CCGGAAAATG TCCAGCATAT GTTTTAAGGT	300
	TATCGGTTTG GCGTTCTAAA TCTGCATATA ATGAATAGTG ATCACCCCAA CCTGTTAAAT	360
25	CCGATGGTTA TCCANATGAT GATCACCATG TCATCANACC	400
	(2) INFORMATION FOR SEQ ID NO: 4253:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4253:	٠
	AAAGGTATCA AAGATGTTAA AGTTACTTTA TTAAATGAAA AAGGCGAAGT AATTGGNACA	60
40	ACTAAAACAG ATGAAAATGG TAAATACTGC TTTGATAATT TAGATAGCGG TAAATACAAA	120
	GTTATTTTTG ANAAGCCTGC TGGCTTAAAC ACAAACAGTT ACAAATACAA CTGAAGATGA	180
	TAAAGATGCA GATGGTGGCG AGTTGACGTA ACAATTACGG ATCATGATGA TTTCACACTT	240
45	GATAACGGAT ACTTCGAGGG GATGACATCA GACAGCGATT CAGACTCCAG ATAGTGACTC	300
	AGRICAGCGAC TCAGACTTCA GACAGCG	327
50	(2) INFORMATION FOR SEQ ID NO: 4254:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4254:	
5	AGATGACATT AAATAGCATC TCCTCGTGTT GATTATTTTG GTTGGCTGAC CAATATTTAT	60
5	TCTAGCACGT AGAGATGCAT TTTTTGTGAC AATGGTAGAA CCTTTTCTGA ACCATACGCA	120
	TAGGATTGTn CTnTTTTACA ATTAAAGAGC CAACCGTTGT TATAGTCTAA CAATGGTTGC	180
10	CCTCTTATTT TATGTGGCTA AAAATTTATA GGCAATTTTA TTACAACAAT GTACATTTAA	240
	GGTGACCTTC ATGCCAAAAT CGCATCACTC ATTTAATGGA AGCAGCACGT CTTCATATAA	300
	AGTACCGATC CCTAATTCCA ACGCATGTnG	330
15	(2) INFORMATION FOR SEQ ID NO: 4255:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4255:	
•	ATTAGTGATT GTAAAAAGT AAAACTATTC TTGGGAGTCG GACATAAATC AATGTCTAGA	60
	CTCTATAGTG TTGTATTTGG CAGTAGTTGA CGGGGCCCCA ACATAAAGAA ATACTTTTTC	120
30	TTTAGAAATT AGTATTTCTT ATACATGAGT TTTACTCAGG ATATCCTATT TTTAAATACA	180
	CATTAGCTGT GTTTAATGAT AAAGAACCAC TACATCATAA ATCTTTAATG GTTCTTTATC	240
35	AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA TATAATTCAA AAAAGGGTCG	300
	AAGATATGAn ATCACATCTT CGACCCTTnn TTGTACTAAT TTAA	344
	(2) INFORMATION FOR SEQ ID NO: 4256:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4256:	
	CCAGTAATAT CTAAATGAGT TGGATATTTA ACTTTCGCAT TAATTTCAAT ATTAAATTGC	60
50	GTTACCGCGA CAAGnCATNA CACAACATAC ATAATAAGAT TGGCTAAAAA GATATAGTTA	120
	AAGCTAAATT CTGCGACAAA GCCGCCCATT GCAGCACCGA CAGCCACACC AATATTTTGC	180
EE	GCTAAGTATA TCGCATTAAA CGTTTGTCTT CCGCCATTTG GCCACACTGC TCCAGCCATA	240

(2) INFORMATION FOR SEQ ID NO: 4257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4257: TITCHICCC AAGCTCGTTA RATCACATAT GATAATTAAT TAACGAGCTT AGGGCTTT ACGGTCATTG TITTACAGTC AACTACTGCT AAAATTAAAAT TAACGAGCTT AGGGCTTT TTCTGTCCC AAGCTCGTTA RATCACATAT GATAATTAAT TATGCCCAAC CACGATAT TCGGTTTTG AGACAATTCG TAAATCGTAT CAAATGCCGC TTCTAATTTT TCACGTG GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: (Xi) SEQUENCE DESCRIPTION: TCTGTCCCAT AGAAAATATT GGCTGGTAACCTTCAATCACGG CTTCTAAGTA GTCTTTCTT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGACCTTCAATCACTG GTTGAATCATA CCACAGTCTCTCTTTCTTTCTTTTTTTTTCTTCTTTTTTTT	323
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4257: GCTGACTITC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TITTGAAAAG AGCGTGTT ACGGTCATTG TITTACAGTC AACTACTGCT AAAATAAAAT TAACGAGCTT AGGGCTTT TTTCTGTCCC AAGCTCGTTA AATCACATAT GATAATTAAT TATGCCCAAC CACGATAT AGCTGCTTCT GCTGTACGTT TAATACCTAT GGATATATGC TGCANTCTGC ATATCTAT TTCGGTTTTG AGCACAATTCG TAAATCGTAT CAAATGCCGC TTCTAATTTT TNCACGTG GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACG TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAA CCAATCACGG CTTCTAAGTA GTTCTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGT ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACTTCA ATGTACCACT GCCGTAACCAC GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACCTTCA ATGTACCACC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTTAGT ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCACCTTCA ATGTACCACC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTTAGT ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCACCAC GAATAATAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCAC ATGTACACTCCAC GCCAACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCACCAC ATGTACACTCCAC GCCAACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTTT GGCGCAACTT GCCGTAACCACCAC ATGTACACTCCAC GCCAACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACTT GCCGTAACCACCAC ATGTACACTCCAC GCCAACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTT GGCGCAACCTT GCCGTAACACCACCAC GAATAATAAAA GCAAAGTCTG CTTTGATTTTTTTTTT	
(8) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4257: GCTGACTITC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TTTTGAAAAG AGCGTGTT ACGGTCATTG TTTTACAGTC AACTACTGCT AAAATAAAAT	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 4257: (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 4257: GCTGACTITC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TTTTGAAAAG AGCGTGTT ACGGTCATTG TTTTACAGTC AACTACTGCT AAAATAAAAT	
GCTGACTTC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TTTTGAAAAG AGCGTGTT ACGGTCATTG TTTTACAGTC AACTACTGCT AAAATAAAAT	
GCTGACTTC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TTTTGAAAAG AGCGTGTT ACGGTCATTG TTTTACAGTC AACTACTGCT AAAATAAAAT	
ACGGTCATTC CACCAGCCTC TGTGTTGGGG CCCCGACTAT TTTTGAAAAG AGCGTGTT ACGGTCATTG TTTTACAGTC AACTACTGCT AAAATAAAAT	
AGCTGCTTC AAGCTCGTTA AATCACATAT GATAATTAAT TATGCCCAAC CACGATAT AGCTGCTTCT GCTGTACGTT TAATACCTAT GGATATATGC TGCANTCTGC ATATCTAT TTCGGTTTTG AGACAATTCG TAAATCGTAT CAAATGCCGC TTCTAATTTT TNCACGTG SCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACG TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAC CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCACCTT GCCGTAACG ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCACCTT GCCGTAACG ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACG ATGTACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCCTTAACTAAAATAAA GCAAAGTCTG CTTTGATTTT GGCGAACTT GCCCTAACACTTCAAAATAAAAAAAAAA	AC 60
AGCTGCTTCT GCTGTACGTT TAATACCTAT GGATATATGC TGCANTCTGC ATATCTAT TTCGGTTTTG AGACAATTCG TAAATCGTAT CAAATGCCGC TTCTAATTTT TNCACGTG TTTTGCATTG AACTTCTTCT NGCAGGACCA ATAATAACCT TGGATTATTT TGTGACCC GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACG TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCTTC CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC 45 GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGAACCTTC ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCTTCCATTGAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCCAACCTT GCCGTAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCCAACCTT GCCGTAACCACTTCAACCAGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCCAACCTT GCCGTAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACTTCAACCACC	GT 120
AGCTGCTTCT GCTGTACGTT TAATACCTAT GGATATATGC TGCANTCTGC ATATCTAT TTCGGTTTTG AGACAATTCG TAAATCGTAT CAAATGCCGC TTCTAATTTT TMCACGTG TTTTGCATTG AACTTCTTCT NGCAGGACCA ATAATAACCT TGGATTATTT TGTGACCC GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGAC TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAA CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGAACCACGT GTTGTAACACGT GTTGTAACACCTTCA TCGTCTCAGGAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCA TCGTTCAGGAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCA TCGTTCAGGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCACTTCAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTTCAACCACTTCAACCACCACCACCACCACCAC	CT 180
TTTTGCATTG AACTTCTTCT NGCAGGACCA ATAATAACCT TGGATTATTT TGTGACCC GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS:	TT 240
GCGGAGTGA (2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTITTICAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACGATA CAAAAATAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTCA GCGGCACCACC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGATACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTT GCCGTAACACTT GCCGTAACCACTT GCCGTAACCACTT GCCGTAACCACTT GCCGTAACCACTT GCCGTAACCACTACACTA	GC 300
(2) INFORMATION FOR SEQ ID NO: 4258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACCTTTTTTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCTTCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTCACGAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTCACGAATCACGG CTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACCTT GCCGTAACCACTT	AT 360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACGATA CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTCA GCGGCACCACGAATACACCACCACCACCACCACCACCACCACCACCACCAC	369
(A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACGATA TTTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTG CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTG GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACGACGT GTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACACACTTGAATAAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACCACACACACACACACACACACACACACACACA	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 4258: CCTTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACA TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAA CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTG GCGGCACCAC GAATAATACA CCATGAGGAG TACGACGCCA AGTACCTTCA TCGTCTAGGAA ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACGAACAACAACAAAAAAAAAA	
CCTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACA TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAA CCCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGG ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACC	
TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGG ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACC	
TTTTTAAATA CTAAAATACA TGTTGGAATA CTTGTCCCAT AGAAAATATT GGCTGGTAACCCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGAAT CACACCTTC GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGGATGACCAACCAACCAACCAACCAACAACAACAACAACAACAA	AT 60
GCGGCACCAC GAATAATACA CCATGNGGAG TACGACGCCA NGTACCTTCA TCGTCTAGG ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAACG	AC 120
ATGTACCAGT GTTGAATAAA GCAAAGTCTG CTTTGATTTT GGCGCAACTT GCCGTAAC	T 180
	TA 240
CTGAATCGTT CATCATTTCA AATTTGAACT GCTGT	ZA 300
	335
(2) INFORMATION FOR SEQ ID NO: 4259:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid 55 (C) STRANDEDNESS: double	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4259:	
5	ATTTCGCTAC CTTACGACCG TTATAGTTAC GGCCGCCGTT TACTGGGGCT TCGATTCGTA	60
3	GCTTCGCAGC NACAACCACT CCTCTTAACC TTCCAGCACC GGGCAGGCGT CACCCTATAC	120
	ATCACCTTAC GGTTTAGCAG AGACCTGTGT TTTTGATAAA CAGTCGCTTG GGCCTATTCA	180
10	CTGCGGnTCT TCTGGGCGTT AACCCTAAAG AGCACCCCTT CTCCCGAAGT TACGGGGTCA	240
	TTTTGCCGAG TTCCTTAACG AGAGTTCGCT CGCTCACCTT AGARTTCTCA TCTTGACTAC	300
	CTGTGTCGGT TTGCGGTACG GGCA	324
15	(2) INFORMATION FOR SEQ ID NO: 4260:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4260:	
	AAGCGGTTGT TAGACAATGC ATTAAGAAAA ATTAAAGCGG AGTTTACTTT TGTAAATGAG	60
	CATTTGATTT TTTGAAAATA AAGCAGTATC GGGCGCTTGA CTAAAAAGAA ATTGTACATT	120
30	GAAAACTAGA TAAGTAAGTA AAATATAGAT TTTACCAAGC AAAACCGAGT GAATAAAGAG	180
	TTTTAAATAA GCTTGAATTC ATAAGAAATA ATCGCTAGTG TTCGAAAGAC ACGAGCAAGA	240
	TTAATAACGC GTTTAAATCT TTTTATAAAA GAAAACGTTT AGCAGACAAT GAGTTAAnTT	300
35	ATTTTAAAGC AGAGTTTACT TATGTMAATG GAGCATTGAA AATMATGAAA ACGAGCCCGT	360
	ATGTGGAGCG TTTGGACTTA TAAAAATGGT GGGAAACATA	400
40	(2) INFORMATION FOR SEQ ID NO: 4261:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4261:	
50	AATTAATGTG CGAGTTGGGG TGGGACGACG ATAAAGAAAT ACTTTTTCTA TAGAAATTAG	60
	TATTTCTTAT GCATGAGTTT TACTCAGTAA TTCCTATTTT TAAGAACACA TTAGCTGTGG	120

	CTCCCCTGAG AAGTITAAAA TITTATATGT TGGCTTGTTA TGTTAAGGGA ATTAACATGG	240
-	TTGTCTTGTT TATATTATGT GATTCAAACA TTACTAGTCT TGGTAAATCT AATTCGTAAA	300
5	ATGCTAAATC TAACCATCTA TTAAATTTAA AACC	334
	(2) INFORMATION FOR SEQ ID NO: 4262:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4262:	
	TTTCGGTCAT ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT	60
20	ATTTTGACGT TTTAGGCATA AAAAAAAGAG ACCTTGGCGG TCTCAATGCG GCTCATCGCA	120
	TCCATTTTTT GCCTGGCAAC GTTCTACTCT AGCGGDAGTA ATTGGGCTAC CATCGTCGCT	180
25	AAAGACCTTT CTTGACTTGT GACAATCGCT TGCnTCTTTC CTCTCCTTCG GCTCTCGCTT	240
	ACTCATTNAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	300
	TTCACTTCGC CAAGCCATTT TTCTTTGTGT	330
30	(2) INFORMATION FOR SEQ ID NO: 4263:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4263:	
40	GAGGTATACC CCGGGACGGC TGAAGGGGAT CGAACCCTAC GNAATGTCGG AACCACAATC	60
	CGATGTGTTA CCACTTCACC ACAGCCGCCA TGGCAGGGGC AGTAGGAATC GAACCCACAC	120
45 .	CAAAGGTTTT GGAGACCTCT ATTCTACCGT TGAACTATGC CCCTATTAAA AATAATAAAT	180
	GGAGGGGGC AGATTCGAAC TGCCGAACCC GAAGAGTCGG ATTTACAGTC CGCCGCGTTT	240
	AGCCACTTCG CTACCCCTCC ATAAATGGTG CCGGCCAGAG GACTTGAACC CCCAACCTAC	300
50	TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCG	339
	(2) INFORMATION FOR SEQ ID NO: 4264:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4264:	•
	GTATTTCAAA GTAAAATTAC ATGTTAATAC GTGnTTAATG GGCGAGACTC CTGAGGGAGC	60
10	AGTGCCAGTC GAAGCCGAGG CTGAGACGGC ACCCTAGGAA AGCGAGCATT CAATACGAGA	120
	ThITHATGAAA TAGAGAACAG CAGTAAGATA TTITCTAATT GAAAATTATC TTACTGCTGT	180
	TTTTTAGGGA TTTATGTCCC AGCCTCTTAC TCTAATTATA TTCACTATCA ATTAGACAAA	240
15	ATGGCCATTT TCAAATATCA CGCGTTGTTT CTGACCTTGA ATATATTTAT TATAATTCTC	300
	TTTTTGGAAA ATCAGTTAAC ATTAATTTAG ATGTACCGTA TTTTTAACAC T	. 351
20	(2) INFORMATION FOR SEQ ID NO: 4265:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4265:	
30	ATTTTCACTT TAAAACCTGC TTCTTTGGCT TTTTGCATAT AATGTTGCGA TTGTTCTATT	60
	GTAAATACAC CTGTTTCACA GAAAATATCC GCAAAGTCTG CATATTGTTT TACTTCCGGA	120
	AGTAACGCAA TCATTTCTTC TAAAAATGCC TCATTTGAAC TTGCCTCTTT AGGTACAGCA	180
35	TGAGGCCCTA GGAAAGTATG TTTCATGTCT AAATCATATT TCTCAGCTAA ACGnTTAGAC	240
	ACTITCAATT GCTTCAGTTC ATTITCTCTA TCTAATCCAT AAACCACTCT TGACTTTCAA	300
40	CTGCAGTCAC GCCGTGTTTn AATCCATAGT AAGACAAAnC ATGACT	346
	(2) INFORMATION FOR SEQ ID NO: 4266:	
	(i) SEQUENCE CHARACTERISTICS:	
4 5	(A) LENGTH: 347 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4266:	
	TCAAACGCTC TATCCAATTG AGCTACGGGC GCATATGTTT TTATTGAAAA TGGTGCCGAG	
•		60
5 5	GACCGGAATC GAACCGGTAC GTGATCACTC ACCGCAGGAT TTTAAGTCCT GTGCGTCTGC	120

	CCAACCTTGG CAAGGTTGTA TTCTACCGCT GAACTACTTC TGCATATGCG GGTGAAGGGA	240
_	GTCGAACCCC CACGCCGTAA GGNTGAGATC CTAAGTCTAG TGCGTCTGCC AATTCCGCCA	300
5	CACCCGCCAA TGGTGAGnCA TAGAGGNTTC GAACCTCTGA CCCTCTG	347
	(2) INFORMATION FOR SEQ ID NO: 4267:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4267:	
	GACTTGTTCT CTTGGACCTA TATCATGTTC TTTATTTTCT AATGCAGGAT CTTTAATTGC	60
20	ATCTTTAAGT GATTCATCCG CTGCAGGATA GTTTTTCGCA GTGTTTGCTG GTTGCGTGAG	120
	GTnTGTGTTT GATTTGTATC CTTAGGTGGC TGAGTTGTAG TTGCATTATT ATTTTGATTT	180
25	TCCGAGATTT TATCTGAAGT ATTTGTATTT TCTGCTGCTT GTGCTTGATG TTGAGAAGTA	240
	ATTAAAAATA GTGTACTGAC AATGACCGAT GCAACGCCTA GAGTTGATTT TCTAATAGAA	300
	TAGGAAAGAC CnTnAATTTT GGGTGGATGT TTGTTCA	337
30	(2) INFORMATION FOR SEQ ID NO: 4268:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4268:	
40	ATACATGTTG GAATACTTGT CCCATAGANA ATATTGGCTG GTAACCCAAT CACGGCTTCT	60
	AAGTAGTTCT TTTCTTCTAT TAAATAGCGA CGAATCACAC CTTCTGCGGC ACCACGGAAT	120
45	AATACACCAT GTGGGAGTAC GACTGCCATG GTACCTTCAT CGTCTAGGTA ATGTACCATG	180
45	TGTTGAATAA AGGGCAAAGT CTGCTTTGGG ATTTTGGCGC AACTTGGCCG TTAACCACTG	240
	GAATCGTTCA TCATTTTTCA NATTTTGGAA TCTGGCTGGT TCCATTTTCG GCACTGGTAT	300
50	GGTGGGGGTT TCGGCAATAA ACGGCATTCA AATGGTATTT GGCCTAAACA AGGCCGGGAT	360
	TTTTCCAATG GGGGTCATCA TTAANGGGAT CNTCGAAGTT	400
	(2) INFORMATION FOR SEQ ID NO: 4269:	

5	(A) LENGTH: 345 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4269:	
10	GGCTCATCGC ATCCTGGGGC TGTAGTCGGT CCCAAGGGTT GGGCTGTTCG CCCATTAAAG	60
	CGGTACGGAG CTGGGTTCAG AACGTCGTGA GACAGTTCGG TCCCTATCCG TCGTGGGCGT	120
	AGGAAATTTG AGAGGAGCTG TCCTTAGTAC GAGAGGACCG GGATGGACAT ACCTCTGGTG	180
15	TACCAGTTGT CGTGCCAACG GCATAGCTGG GTAGCTATGT GTGGACGNGA TAAGTGCTGA	240
	NAGCATCTAA GCATGANGCC CCCTCAAGAT GAGATTCCCA ACTTCGGTTA TAAGATCCCT	300
	CAAAGATGAT GAGGATATAG GTCGAGGTTG GAGCATGGTA CATGT	345
20	(2) INFORMATION FOR SEQ ID NO: 4270:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4270:	
	AAGAATTAAT TATACATTTT ATTAACATTT AAGTCAATAA CTTTTTTTAT CTTGTCCATT	60
	TTATTTTTTA ACCAAATTT GATTAAAAA CTGCCTGGCA ACGTTCTACT CTAGCGGAAn	120
35	TAAGTCGACT ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG	180
	TGACCTCCtT GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA	240
40	GTAAGTAAAA GTGGATTTTG CTTCGCAAAC ATTTATTTTG ATTAAGTCTT CGATCGATTA	300
	GTATTCGTCA GCTCCaCATG GTCACCAGCT TCCACCTCGA ACCTATTGGn CGCATCATCT	360
	CGCAGGGAnC	370
45	(2) INFORMATION FOR SEQ ID NO: 4271:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
-		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4271:

	ATTAACAAAA GGCATTGATT TAGAAGGGCG GACATTTTTA CACAATTATG ATTGGCGTAA	120
	AGATAAAGAT GGCACATTAT TAAATACCAT CATTTCTGGT CCGGCACTTG TGGCACAATG	180
5	GaTTAATTTA CAATATTATG CGTCGACAGT TGCGCCGCAT TTTTACGGLA ATGGGAATAA	240
	AGCGACACAA ACCGTCACGT CAGTGTTGGT GTCATGCAAG GTAATGCGAG TGCATCTGAT	300
	GTAGGGCTTA TCATGGCCAA TCTGTTA	327
10	(2) INFORMATION FOR SEQ ID NO: 4272:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4272:	
	CATTCTTTAA ACTCTGTAAG TACTTCTTCA ATCTCAGGGG CATCTACTAA CATATCATCA	60
	GTAATATGCG TCAAATTGAT AATCGTTTCC GATAATCGTT CATGCGGATT ACTAAACCTT	120
25	TCAAACTTAT CGATGATTTC ACCGTTATGA ACTTTCACAG CTGCAAnTCG ATGATTTAT	180
	CATACTGATT TGATAAACCA GTTGTCTCAA CGTCGAACAC AACATAAGTA GCATCTTTTA	240
30	ATACGACATC TTGTGGGTTG TATGCAATCG GGAACACCAT CATCAACTAA CATACCTTCC	300
•	ATACCGGNAT ATCATTTAA NGCCA	325
	(2) INFORMATION FOR SEQ ID NO: 4273:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4273:	
	TCCGGCCTTG ACCTGAAGAA CACTTGTCTT GTCGTTAAGA TGACTCTAGA CTCTTATGTT	60
45	TATTATCAAC CGTTAATAAA CTTACCATCA AGAGTGCACC TACCCATACT GACAGTGCAG	120
	TATAGAATGG TGTCATACCT GAACCATAAT CCTTAACTGG GAAAACATCA ACAGTCTTCT	180
50	TATTAATAGG ATTTGCAATA ATACCCGCTT GCTTTTTCAA ATCATTCTTA AGTGTGTCGA	240
	ThAATTTGTC GACTGCATCA TCTHTGTCTA ATTTCTTGAA AATTTTGATT CGCTTTTTTC	300
	CAAATCCTTm TCCAACATCA GGCAATTTTA TTTTGAGAAA AATCAGCCAA ATCCGGA	357

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4274:	
70	ACGTTAGCAC AAGCCATGAA CCAATTAGGT GGAAAGAGTA ATAGTGGTGA AGGTGGCGAA	60
	GATGCAAAAC GTTATGAAGT ACAAGTTGAT GGAAGCAACA AAGTAAGTGC GATTAAACAA	120
15	GTTGCTTCTG GGCGTTTTGG TGTAACTAGT GATTATTTAC AACATGCCAA AGAAATTCAA	180
	ATTAAAGTTG CGCAAGGTGC AAAGCCTGGT GAAGGTGGTC AATTACCTGG TACTAAGGTA	240
	TATCCGTGGA TTGCGANGAC AAGAGGGTCA ACGCCAGGTA TCGGTCTGAT TTCACCACCG	300
20 .	CCACATCATG ATATTTMATT CCATAMGAGG ATTTAGCCGC CACCTGATAC CTGGATTTTG	360
	GAAAAATGGC GAATTAAGGT TGCnGATTTT CCCCGGGTAA	400
	(2) INFORMATION FOR SEQ ID NO: 4275:	
25 30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4275:	
35	AACGTCGTTA ATTGAATAAC GCTTATGTTA TAAGAGCACT CATACCAAAC CATAATCATC	60
	TATAGATATA ACAATTCACG ATATAAGGGC TGTGTTTGGC ATAGCCTTTA GATATACACT	120
	TAATTCCTAT TAAAATAGTA GGGATTAAAA GGGGGCTTGT CATGGATTAA AATTCAACAA	180
40	TTACAACATC ACTTTGGATC ACATAAAGTA ATTCATAACT TTAATTTGGA CATTAGCAAG	240
	GGAGAAATAG TCACTTTCAT AGGGGAAAAG TGGTTGCGGA AAGTCTACTT TACTCAATAT	300
	TATCGGTGGA TTTnTTCCAT CCATCGnCTG GTCGTGTCCA n	341
45	(2) INFORMATION FOR SEQ ID NO: 4276:	•
50 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TAGTGATATA CGACATCACA GCATAATATT GCTTTAGAAA GTCGTGCCGA ACTGGAACTT	60
	ACAAGTCTAG TTCGAACACA CACTGATGTG AGTGGTTTTC TTTATTTTAA ACATGAACAA	120
5	TCAGATAAGT TACTAGCATT AGCAAATATT ATTAAATCAA AGGGCTTCGA TTCATAAAAT	180
	TTAAAACAAT GATTAAAATT AGACGTGTAA ATTGTTAAAT TCTAAAACGG AAATAACCAC	240
	CATTCCATTA AACCACTTTT TTGTTCATCA CTATATTTCA CACHGCTTCA TTAATAAACG	300
10	GAATGCTTCA nCCGCTTCAA CTTCAACTGG CTTCAACTTC nGCCTACTTC ATCATACCAA	360
	ACGGTCCG	368
15	(2) INFORMATION FOR SEQ ID NO: 4277:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4277:	
	ATGGAAGTAC GTGACGTTCA CTACTCTCAC TATGGCCGTA TGTGTCCAAT TGAAACACCT	60
	GAGGGACCAA ACATTGGATT GATTAACTCA TTATCAAGTT ATGCACGTGT AAATGAATTC	120
30	GGCTTTATTG AAACACCATA TCGTAAAGTT GATTTAGATA CACATGCTAT CACTGATCAA	180
	ATTGACTATT TAACAGCTGA CGAAGAAGAT AGCTATGTTG TAGCACAAGC AAACTCTAAA	240
	TTAGATGANA ATGGTCGTTT CATGGGATGA TGAAGTTGTA TGTCGTTTCC GTGGTAACAA	300
35	TACAGTNATG GCTAAAGN	318
	(2) INFORMATION FOR SEQ ID NO: 4278:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4278:	
	CACTTGTACT TTCTGATGTT GAGCCAGACT CTGATGTACT TACCGATGTA GATAAACTTG	60
50	CAATGGTCGA CATGCGGTTT GAAGTTGATG TACTTAGCGA ATCACTTAAT GATGCTGATG	120
	TGCTTTGTGA ATCGGATTCG CTCGTGCTTG TACTTGTTGA GTTTGAGGCA CTTTGGCTTG	180
	CTGAGTTTGA GTCTACTCCG CTTTGATTCA TTGAGGCACT TAGTGACAAT GATGTACTCG	240

	TACTTATGCT CATTGGATGT TGAATCGGAT TTACTTTCAC TTGAATGATG TTGAGTCGGA	360
	TTCACTTTCA CTTGTAGAAC CACTTAATGA TGTGGGATGT	400
<i>5</i>	(2) INFORMATION FOR SEQ ID NO: 4279:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	(D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4279:	
	TTTGTACTTC GATTTAAAAG ATATTAGACA TAAAATCTAA AAnCAGCAGT AAGATGATTT	60
	ATGATTAAAA ACTATCTTAC TGCTGTTCAC TTTTTATAAT ACTTCTGAAT GTCTTCACTT	120
20	ATACTTCTAG TCACAGATTT AAATAATCAA AAGTGCACAT TATTAAAATA TCAATTTCAC	180
	ACTCAATGCG GCTCATCGCA TTCATTTCTT GTCTAGCAAC GTTCTACTCT AGCGGAAGTA	240
	AGTTAGCTAC CATCCTCGCT AAGAACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC	300
25	CTCTCCTTCG GCTCTCGCTT ACTC	324
	(2) INFORMATION FOR SEQ ID NO: 4280:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4280:	
	CTCACTAGTC GAGTGACACT GCGCCGAAAA TGTACCGGGG CTAAACATAT TACCGAAGCT	60
40	GTGGATTGTC CTTTGGCATG TGnTTAGGAG AGCGTTCTAA GGGCGTTGAA GCATGATCGT	120
	AAGGACATGT GGAGCGCTTA GAAGTGAGAA TGCCGGTGTG AGTAGCGAAA GACGGGTGAG	180
	AATCCCGTCC ACCGATTGAC TAAGGTTTCC TGnGGAAGGC TCGTCCGCTC TGGGTTAGTC	240
45	GNGTCCTAAG CTGAGGCCGA CAGTAGGGCG ATGGGATAAC AGGTTGATAT TCCTGTACCA	300
	CCTATAATCG TTTAATCGAT GGGGGG	326
50	(2) INFORMATION FOR SEQ ID NO: 4281:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid	·
55	(C) STRANDEDNESS: double	•

	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4281:	
5	TCGAACATGA GCGATTATTT CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG	60
	GTTTTGCTTG GTAAAATCTA TATTTTACTT ACTTATCTAG TTTTCAATGT ACAAATAATG	120
	GTGGGCCTAA GTGGACTCGA ACCACCGACC TCACGCTTAT CAGGCGTGCG CTCTAACCAG	180
10	CTGAGCTATA GGCCCATTTT TTTGAATGTT AAATAAACAT TCAAAACTGG AATACAATAT	240
	GTCACGTTAT TCCGCATCTT CTGAAGAAGA TGTTCCGAAT ATATCCTTAG AAAGGNAGGT	300
15	GATCCAGCCG CACCTTCCGA TACGGGCTGA CCTTGTTGAC GACTTGCACC CCAAGCATTT	360
	GTGCCCAncn	370
	(2) INFORMATION FOR SEQ ID NO: 4282:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		.:-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4282:	
30	GAGAGATGAC ACGGNACTGA ATTGGTTTGA CACCACGTGA TGAATGTGAT CGTCGGCCTT	60
00	CTTCACGATT GNAATACTTT TACATCAAGA ACGATACCGC CAGCGCCGTG AGGTACACGT	120
	AATGAAGTAT CTCTAACTTC ACGTGCTTTT TCACCAAAGA TTGCATGTAA CAATCTTTCT	180
<i>35</i>	TCGGCAGTTA ACTCAGTTAC ACCTTTAGGC GTTACTTTAC CAACTAAAAT ATCTCCATCT	240
	TTTACTTCTG CACCAATATA AACGATACCA CGATCGTCTA AGTTCTTAAG TGCACTTTCA	300
	GAAACATTAG GNATATCTCT TGTGATTTCC TCAGGGCCTA ACTTAGTATC ACGTGCCTCT	360
40	GAATCCATAC TCCTTCAATA TGAATAGAAG TATACACGGn	400
	(2) INFORMATION FOR SEQ ID NO: 4283:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4283:	
	AATTCTACAG GCAATGCGAG TTGGGGTGTG GGCCCCAACA AAGAGAAATT GGATTCCCAA	60
<i>55</i>		

CATGETCCAAT CATGATTAAA ATATCACCTA TITCTAAATT AATATTTGGA TITGGTGAAA TGATGGACTC TITGCCTCGT TTAATTGCCA TAATGTTAAT ACCATATTGT GCTCTTATAT CTHAATCCAT GATAGACTGN CCCG (2) INFORMATION FOR SEQ ID NO: 4284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENNES: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: 20 AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA 6 AACGGTTTTA GATCGTATC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC 12 GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC 18 AAATTCTAGT GTTAGATGAT AGTGGATTAG TGGGTAAAA TGGCTTTTAAAA AAGGGCGCTC 24 AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG 30 TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG 36 ATGTCTAACA AGTTTTNTC GCTAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCCATCGTCGC 12 TAAAGACCTT TCTTGACTTG TGACAAATCG TTGCATCTTT CCTCANCATC GGGITNTAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAACGT 24: TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGGATA 30:			
TURATGGACTC TTTGCCTCGT TTAATTGCCA TAATGTTAAT nCCATATTGT GCTCTTATAT CTHAATCCAT GATAGACTGN CCCG (2) INFORMATION FOR SEQ ID NO: 4284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENDES: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA AACGGTTTTA GATCGTATTC AATTGAAAAAG GCCGGTATTG AATGAATCA ACTTAGCAGC GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAAATTCTAGT GTTAGATGAT AGGCCGTAGAA GCAGTGAAAT GCTGTAAAAC AAGGGCGCTC AAAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTCC AATGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTTTC GCTAAAATCA GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDENDESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAAGACCTT TCTTGACTTG TGACAAATCG CTGCTCTTTCC GTTTCGTCAG ATTCAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACCTTTT ATTTTGACGT TTTAGGCATA 30 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACCTTTT ATTTTGACGT TTTAGGCATA 30 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACCTTTTT ATTTTGACGT TTTAGGCATA 30 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACCTTTTT ATTTTGACGT TTTAGGCATA 30 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACCTTTTT ATTTTGACGT TTTAGGCATA 30		TCTGTCCCAC TCCCGATTAT CTCGTCGCAA TATTTTTTTC AAAGCGATTT AAATCATTAT	180
CTHAATCCAT GATAGACTGN CCCG (2) INFORMATION FOR SEQ ID NO: 4284: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAAACA ACTTAGCAGC GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAAATTCTAGT GTTAGATGAT AGGCGTAAGA GCAGTGAAAT GCTGTTAAAC AAGGGCGCTC AAAATTCTAGT GTTAGATGAT AGGCGTATGA TGTGGATAGCA ATGGCTTTCA AATGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTTTC GCTAAAATCA GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: SCO base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAAATCGC TTGCATCCTT CCTCAACATC GGATTTAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTTAGACGT TTTAGACGT TTTCACTTCGT CCAAGCCATT TTTCTTTGT		CATGTCCAAT CATGATTAAA ATATCACCTA TTTCTAAATT AATATTTGGA TTTGGTGAAA	240
(2) INFORMATION FOR SEQ ID NO: 4284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: 20 ARACGGTATTA GATGGTATC ARTTGAAAAG GCCGGTATTG AATGAATCAC ACCTGACGA 6 AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAATCAC ACCTGACGA 12 GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAAATTCTAGT GTTAGATGAT AGGCGTAGAA GCAGTGAAAT GCTGTTAAAAC AAGGGCGCTC 24 AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG 30 TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTC TTTAAAGCCA GATTTACGTG 36 ATGTCTAACA AGTTTTATC GCTAAAAATCA GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTGGCTA CCATCGTCGC 12: TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATATAACGT 24: TTCCACTCG CCAAGCCATT TTTCTTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:	5	TGATGGACTC TTTGCCTCGT TTAATTGCCA TAATGTTAAT nCCATATTGT GCTCTTATAT	300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: 20 ARATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA AACGGTTTTA GATCGTATC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC 12 GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAAATTCTAGT GTTAGATGAT AGGCGTAGAA GCAGTGAAAT GCTGTAAAAC AAGGGCGCTC AAAATTCTAGT GTTAGATGAT AGGGGTATGA GTGGATAGCA ATGGCTTTGC AATGCCGATG ATGTCTAACA AGTTTTATC GCTAAAAATCA GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCCAACATC GGATATAACGT TTCCACTTCG CCAAGCCATT TTTCTTTTGTG TTTTACTTTTT ATTTTGACGT TTTTAGACCTA TTTCACTTCG CCAAGCCATT TTTCTTTTGTG TTTTACTTTTT ATTTTTGACGT TTTAGGCATA 301		CTnAATCCAT GATAGACTGn CCCG	324
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284: 20 AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA 6 AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC 12 GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGGTTTGGC 18 AAATTCTAGT GTTAGATGAT AGTGGATTAG TGGGTAAAT GCTGTHAAAC AAGGGCGCTC 24 AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG 30 TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG 36 ATGTCTAACA AGTTTTTTTC GCTAAAATCH GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC 12: TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATTATAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTTGTCAG ATTCAAACGT 24: TTTCACTTCG CCAAGCCATT TTTCTTTTGT TTTACTTTTT ATTTTTGACGT TTTAGGCATA 30:	4.0	(2) INFORMATION FOR SEQ ID NO: 4284:	
AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAGATCCTAG GTACAGCATTA GGCCGTAGAA GCAGTGAAAT GCTGTAAAAC AAGGGCGCTC AAAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG 30 ATGTCTAACA AGTTTTNTNC GCTAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCANCATC GGNTNTAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT 24: TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:		(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAGATGCGTT ATAAGCATTA GGCCGTAGAA GCAGTGAAAT GCTGTAAAAC AAGGGCGCTC AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTATC GCTAAAATCA GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAAACATC GGATTTAACGT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 301		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284:	
AAGATCCAC GAACATTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAGATCCACG GTACAACATTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC AAGATCCTACG GTTAGATGAT AGGCCGTAGAA GCAGTGAAAT GCTGTTAAAAC AAGGGCGCTC AAAATTCTAGT GTTAGATGAT AGTGGCATTGC TTTGAATGCA ATTGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ACGTCTAACA AGTTTTTTC GCTAAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCANCATC GGNTNTAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:	20	AAATCGTAAC GAGTGAACTT TCTTATTTAG GTGGCGAAGT AACTTACTAG CACCTGACGA	60
AAGATGCGTT ATAAGCATTA GGCCGTAGAA GCAGTGAAAT GCTGTNAAAC AAGGGCGCTC AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTNTNC GCTAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCANCATC GGNTNTAGCT 180 TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT 240 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 301		AACGGTTTTA GATCGTATTC AATTGAAAAG GCCGGTATTG AATGAATCAC ACTTAGCAGC	120
AAGATGCGTT ATAAGCATTA GGCCGTAGAA GCAGTGAAAT GCTGTHAAAC AAGGGCGCTC AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTHTHC GCTAAAATCH GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS:		GATTGATCAG GAACATTTTA AATTAACTTA TTTATCAACG GTATATGAAG GGGATTTGGC	180
TITTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG ATGTCTAACA AGTTTTnTnC GCTAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS:	25	AAGATGCGTT ATAAGCATTA GGCCGTAGAA GCAGTGAAAT GCTGTnAAAC AAGGGCGCTC	240
ATGTCTAACA AGTTTTNTNC GCTAAAATCN GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC 12: TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCANCATC GGNTNTAGCT 18: TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:		AAATTCTAGT GTTAGATGAT AGTGGATTAG TTGGATAGCA ATGGCTTTGC AATGCCGATG	300
ATGTCTAACA AGTTTTHTHC GCTAAAATCH GGGTGGAGAC (2) INFORMATION FOR SEQ ID NO: 4285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATATAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:	30	TTTACTCGCA ATGAAGTGCA TGTGCCATGC AATTGACTTC TTTAAAGCCA GATTTACGTG	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTITCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAAA GAGACTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATATAGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 300		ATGTCTAACA AGTTTTnTnC GCTAAAATCn GGGTGGAGAC	400
(A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTITICTT TGTGTTTACT TTTTATTITG ACGTTTTAGA CATAAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC 12 TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGnTnTAGCT 18 TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT 24 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30		(2) INFORMATION FOR SEQ ID NO: 4285:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285: CATTTTCTT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC 12: TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATATAGCT 18: TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT 24: TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30:	35	(A) LENGTH: 560 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CATTTTCTT TGTGTTTACT TTTTATTTG ACGTTTTAGA CATAAAAAA GAGACTCACG 6 GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC 12 TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATAAAACGT 18 TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT 24 TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30	40		
GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAACATC GGATATAGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285:	
GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAnCATC GGnTnTAGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 300		CATTITICIT TGTGTTTACT TTTTATTTTG ACGTTTTAGA CATAAAAAA GAGACTCACG	60
TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 300	45	GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC	120
TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA 30		TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCATCTTT CCTCAnCATC GGnTnTAGCT	180
		TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT	240
AAAAAAAGAG ACCTTGnCGG TCTCAATGCG GGCTCATCGC ATCCATTTTT TGCCTGGCAA 360		TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA	300
		AAAAAAAGAG ACCTTGnCGG TCTCAATGCG GGCTCATCGC ATCCATTTTT TGCCTGGCAA	360

	TGACAATCGC TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA	480
	ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT	540
<i>5</i>	TTTCTTTGTG TTTACTTTTT	560
	(2) INFORMATION FOR SEQ ID NO: 4286:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4286:	
	GTAACACTCG GNATAACCTA CCTATAAGAC TGGGATAACT TCGGGAAACC GTAGCTAATA	60
20	CCGGATAATA TTTTGAACCG CATGGTTAAA AGTGGAAAGA CGGTCTTGCT GTCACTTATA	120
	GATGGATCCG CGCTGCATTA GCTAGTTGGT AAGGTAACGG CTTACCAAGG CAACGATGCA	180
	TAGCCGACCT GAGANGGTGA TCGGCCACAC TGGAACTGAG ACACGGTCCA GACTCCTACG	240
25	GGAGGCAGCA GTAGGGAATC TTCCGCAATG GGCGAAACTG GACGGAGCAA CGCCGCGTGA	300
•	TGNATGGAAG GTCTTCGGAT CGTAAAACTC TGTTATT	337
30	(2) INFORMATION FOR SEQ ID NO: 4287:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4287:	
40	CAATCGTGCT CANTGCGCAT CGTNACTCAT CTGTATGTGT TCCAGCATAT ACAATTTTGC	60
	CATCTTTAAT GACAACTGTA CCATTTTCA CAACATTTAA TTCATCTAAT TCCTTACCCT	120
	TCAAAGGTTT ATCTGTTGAT CTCGGTAAAA TTAATTCTGG CTATATGATT AATTATTAAA	180
45	TCATCATTAC TTATCACCTG CTTTATCAAT CATGGAATAT GAATACCTTT TTCTTTAGCT	240
	GTTTGAATAG CGATGTCATA GCCAGCATCA ACATGTCGGG CAACACCCAT ACCTGGGTCA	300
50	GTCGTCAATA CACGTTCCAA TCTTCTTTCA GCACGCTCTG AATCCATCTG G	351
	(2) INFORMATION FOR SEQ ID NO: 4288:	
•	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double

	(D) IOPOLOGI: IIMedi	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4288:	
	CTATTCACTG CGGCTCTTCT GGGCGTTAAC CCTAAAGAGC ACCCCTTCTC CCGAAGTTAC	60
10	GGGGTCATTT TGCCGAGTTC CTTAACGAGA GTTCGCTCGC TCACCTTAGA ATTCTCATCT	120
	TGACTACCTG TGTCGGTTTG CGGTACGGGC ACCTATTTTC TATCTAGAGG CTTTTCTCGG	180
	CAGTGTGAAA TCAACGACTC GAAGACACAA TGTCTTCTCC CCATCACAGC TCAGCCTTAA	240
15	CGAGTACCGG ATTTGCCTAA TACTCAGCCT TACTGCTTAG GACGTGCAAT CCAATCGCAC	300
	GGTTTnGCCT ATCCTA	316
	(2) INFORMATION FOR SEQ ID NO: 4289:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4289:	
30	TTnTTTATGT CTAAAACGTC AAAATAAAAG CAAACACAAA GAAAGATGGC TTGGCGAAGT	60.
	GAAAACGnTT GAATCTGACG AAACGAGAAA TGTAAAGTAT AATAAAAAGC AGTCATAAGA	120
٠	TGATTTCAAT TAGAAATCAA TTTATGACTG TTTTTCTTAC TATGTGTTAA ATTAACAATG	180
35	AATATAACAT CTTATTTTCA TTAATATAAA TATTGGAAGG ATCGANATGA TTTACACGTT	240
	GTTTGAGTTG TATTAAATCA TCATGATCTT TAAGTTGAAT ACCAATAATG ACAGTACCTG	300
40	TATTTTGAGA GATTTTTAA GT	322
7.	(2) INFORMATION FOR SEQ ID NO: 4290:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
50 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4290:	
	TCATTTAGCT CTACTAAACT CGTTGCGCTC TTTTCTCGTT TCGTCAGATT CAAACGTTTT	60
	CACTTCGCCA AGCCATTTT CTTTGTGTTT ACTTTTTATT TTGACGTTTT AGGCATAAAA	120
<i>55</i>	<u></u>	

	CTCTAGCGGA ANTAATTGGC TACCATCGTC GCTAAAGACC TTTCTTGACT TGTGACAATC	240
	GCTTGCTTCT TTCCTCTCT TCGGCTCTCG CTTACTCATT TAGCTCDACT AAACTCGTTG	300
5	CGCTCTTnTC TCGTTTCGTC AGATTTCAAA CGTTTTCA	338
	(2) INFORMATION FOR SEQ ID NO: 4291:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4291:	
	AATTGGTTTA CACCAGGTGA TAATGTATCG TCGCCTTCTT CACGATTGAA TACTTTTACA	60
20	TCAAGAACGA TACCGCCAGC GCCGTGAGGT ACACGTAATG AAGTATCTCT AACTTCACGT	120
	GCTTTTTCAC CAAAGATTGC ATGTAACAAT CTTTCTTCGG CAGTTAACTC AGTTACACCT	180
	TTAAGGCGTT ACTTTACCAA CTAAAATATC TCCATCTTTT ACTTCTGCAC CAATATAAAC	240
25	GATACCACGA TCGTCTAAAG TTCTTGAAGT GCACTTTnCA GAAACATTGA GGGAATGATC	300
	TCTTGTGATT TCTTCCAGGT CCTAACTTGA GTGATCACGT GGCTTCTGGA TTGCAGACGC	360
30	TTGCAAGATG GAATGAGAAG TGANACACGT GCATCCTTGC	400
	(2) INFORMATION FOR SEQ ID NO: 4292:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4292:	
	AAACGTTTTC ACTTCGCCAA GCCATTTTTC TTTGTGTTTA CTTTTTATTT TGACGTTTTA	60
45	GGCATAAAAA AAAGAGACCT TGCGGTCTCA AATGCGGCTC ATCGCATCCA TTTTTTGCCT	120
	GGCAACGTTC TACTCTAGCG GAACGTAATT GGGCTACCAT CGTCGCTAAA GACCTTTCTT	180
	GACTTGTGAC AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC	240
50	TACTAAACTC GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA	300
	GCCATTTTC TTTGTGTnnA CTTTnT	326
	(2) INFORMATION FOR SEQ ID NO: 4293:	

5	(A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4293:	
10	GGGGACAATT CCCTGGGGGT TCAAGTCCTC TCGGGCCGGC ATCAAAATTC TTAATTTAAA	60
	TAAGCGGGTG TAGTTTAATG GCAAAACCTC AGCCTTCCAA GCTGATGTTG TGGGTTCGAT	.120
	TCCCATCACC CGCTCCATAG ATAATTTTAA TGAACATTGA AAACTGAATG ACAATATGTC	180
15	AACGTTAATT CCAAAAACGT AACTATAAGT TACAAACATT ATTTAGTATT TATGAGChAA	240
	TCAAACATCA TAATTTTAT GGAGAGTTTG ATCCTGGCTC AGGATGAACG CTGGCGGCGT	300
	GCCTAATACA TGCCAGTCGA GCGAACGGAC GAGAAGCCTG CCTCnCnGAT GTTAGC	356
20	(2) INFORMATION FOR SEQ ID NO: 4294:	
25 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4294:	
	TTATCACCCA TGTTCTGACT CCCAAGTTAA ATTAATTGGC ATTCGGAGTT TGTCTGAATT	60
	CGGTAACCCG AGAGGnCCCC TCGTCCAAAC AGTGCTCTAC CTCCAATAAT CATCACTTGA	120
35	GGCAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATTTCC AGGTTCGATT GGAATTTCTC	180
	CGCTACCCTC AGTTCATCCG CTCACTTTC AACGTAATCG GTTCGGTCCT CCATTCAGTG	240
	TTACCTGAAC TTCAACCTGA CCAAGGTAGA TCACCTGGTT TCGGGTCTAC GACAAATACT	300
10	AAACGCCCTA TTCA	314
•	(2) INFORMATION FOR SEQ ID NO: 4295:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4295:	
	AAGTGAAAGA ACTCGGCGTG ACACCTATTG CACGATTCGT TGGTTTTAAG GCAGTAGGCG	60
5		

	•	
	GCAATCTATC TGTTGAAGAC ATTGATTTGA TCGAATTGAA CGAAGCATTT GCTTCTCAAA	.180
	CGATTGCATC TATTAAAGAA GTAGGTCTAG ATATATCACG TACGAATGTG AATGGTGGCG	240
5	CTATTGCTTT AGGTCATCCA TTAGGTGCTA CAGGCGCCAA TGTTAACCCG CGCGTTTACC	300
	TAATGAAATG GGGTAAACCG nCCCGATAGN CCGTANCGCA AGGGT	345
10	(2) INFORMATION FOR SEQ ID NO: 4296:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4296:	
20	TAAATTGATT TCTAATTGAA ATCATCTTAT GACTGCTTTT TATTATACTT TACATTTCTC	60
	GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATC TTTCTTTGTG TTTGCTTTTA	120
	TTTTGACGTT TTAGACATAA AAAAAGAGAC CTTGCGGTCT CAATGCGGCT CATCGCATCC	180
25	ACTITITGCC TGGCAACGTT CTACTCTAGC GGAANTAATT CGNACTACCA TCGACGCTAA	240
	GGAGCTTAAC TTCTGTGTTC GGCATGGGAA CAGGTGTGAC CTCCTTGGCT ATAGTCACCA	300
30 ·	GACATATGAA TGTMAATTGA TACATTGCAA AACTAGGATA GTGAAGTAAA AGTGATTTTG	360
	c	361
	(2) INFORMATION FOR SEQ ID NO: 4297:	
3 5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 337 base pairs (B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4297:	
	AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACT GTTTTCACTT CGCCAAGCCA	60
45	TTTTTCTTTG TGTTTACTTT TTATTTTGAC GTTTTAGACA TAAAAAAAGA GACCTCACGG	120
	TCTCAACTTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT	180
50	AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT	240
	ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	300
	TTCACTTCGC CAAGCCATTT TNCTTTGTGT NTACTNT	337

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 323 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4298:	
10		,
	GTATTCCTCC ATTATTATAG GTAAATCGCT ATTAATTATA AAATTAAATG GCGGTCTCGA	60
	CGGGAATCCT GCGTGACAGN CAGGCGTGTT ACCGCTACAC TACGAGACCA TTAGTAAAAC	120
15	GGAGGAAGAG GGATTCGAAC CCCCGCGAGC CGTTAAGCCC CTGTCGGTTT TCAAGACCGA	180
	TCCCTTCAGC CGGACTTGGG TATTCCTnCA AAATTATATG GACCTnGCAG GACTCGAACC	240
	TGCGACCGAA CGTTATGAGC CTTAGCTCTA ACCAACTGAG CTAAAGGTCC TAAATATAAT	300
20	TTTTACAACT AATAAAATAG TGG	323
	(2) INFORMATION FOR SEQ ID NO: 4299:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4299:	
	CTACATGCGT TGAATTAGGG ATCGGTACTT TATATGAAGA CGTGCTGCTT CCATTAAATG	60
35	AGTGATGCGA TTTTGGCATG AAGGTCACCT TAAATGTACA TTGTTGTAAT AAAATTGCCT	120
	ATAAATTTTT AGCACATAAA ATAAGAGGNG CCAACCATTG TTAGACTATA ACAACGGTTG	180
	GCTCTTTAAT TGTAAAAAGA AAACCATACG CTATGNTGTT ACAANGAAAA AGGTTCTACC	240
40	ATTGTCACAA AAAATGCATC TCTACGTGCT AGAATAAATA TTGGTCAGCC AACCAAAATA	300
	ATCAACACGA GGAGATGCTA TTT	323
	(2) INFORMATION FOR SEQ ID NO: 4300:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(~i) SECTIFNCE DESCRIPTION. SEC ID NO. 4300.	

	·	
	TGAATCCAGA TAAAATTGGA ATGATTAACG CGAATCACTT TTACTACCAA TGTTCCAAAG	120
. •	CTGCTCTGCA AACGCATTGT ACTCTGAGCT TTTTGGATTA AATGAATTTG CTCCAAATAA	180
5	AAATACAATT GCCATTAAAA TACCACCAGA TATTACAAGT GGCAACATGT TAGAAACACC	240
	GTTnCATTGA AGTGTTTGAT AGAATGCTTT ACCTGGGGCT TGAATTTTTC TTGGACTGTG	300
	CATTIGAGIT ACCITITCIT IGGACCATCA CGGGGCAACA AAAGGITIGA CGACTIGIGA	360
10	GCTGAATGGC TINGNIGAAI GAAII	385
	(2) INFORMATION FOR SEQ ID NO: 4301:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4301:	
	TCCTGTACCA CCTATAATCG TTTTAATCGA TGGGGGGACG CATAGGAATA GGCGACGTGA	60
25	CGATTGGATT GCACGTCTAA GCAGTAAGGC TGAGTATTAG GCAAATCCGG TACTCGTTAA	120
	GGCTGAGCTG TGATGGGGAG AAGACATTGT GTCTTCGAGT CGTTGATTTC ACACTGCCGA	180
	GAAAAGCCTC TAGATAGAAA ATAGGTGCCC GTACCGCAAA CCGACACAGG TAGTCAAGAT	240
30	GAGAATTCTA AAGTGAACGA ACGAACTCTC GTTAAGGGAC TCGGCAAAAT GAnCCCGTAA	300
	CTTCGGGGAA AAGGGTnCTC TTTANGGTTA ACGCCCCAAA AAACCGCT	348
35	(2) INFORMATION FOR SEQ ID NO: 4302:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 385 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4302:	
45	AATGGAACGT GCTTCTGTAT TGGCCCAAGT AGATATTCAT CGTGCAGCAA CACATAATAA	60
	AGGTGTTATG AATGGCATAC ATGCTGTTGT TTTAGCAACA GGGAAATGAT ACGCGTGGTG	120
	CAGAAGCAAG TGCGCATGCA TnACGCGAGT CGTGACGGGA CAGTATCGTG GTATTGCTAC	180
50	ATGGCGTTAC GATCAAGATC GTTCAACGAT TGATTGGTAC AATTGCAAGT GCCTATGGAC	240
	ATTGGGCAAT CGTTGGCGGT GGTACAAAAG TATTACCAAT TGCTAAAGCT TCCATTAGGn	300

	TTTTGAGCGG CAAAAACTTT GnCAG	385
	(2) INFORMATION FOR SEQ ID NO: 4303:	
<i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4303:	
15	AGTGCGACGA TTGGTATTTT ACAAGAATTT TATCAACAAG ATTTAATTAG CTTAAACGCA	60
15	GCAATCCCTG TGTTACTAGG CGATAACATT GGTACCACGA TTACAGCTAT CTTAGCTAGT	120
	TTAGCCGGCT CAATCGCTGC AAAACGTGCG GCGCTTGTAC ACGTCATCTT TAACTTAATC	180
20		
20	GGGGTAATTA TCTTCACAAT TTTCTTGCCA GTTGTGATTC ATTTGATTAG TTTGTTACAA	240
	GATTTATGGG CACTTAAAAC CAGCGATGAC GATTGCAGTA TCACATGGNA TCCTTCAACA	300
25	TAACCAATAC CTTGGATTCC ATTTACCAAT TTGTAGCCnG GTTTAGCATn GGATTGGTTA	360
•	CCAAGCCTTG TCCC	374
	(2) INFORMATION FOR SEQ ID NO: 4304:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4304:	
	AAAACAGGAT ACTTCGATAA GTTAATGATT TCTGTTGTGA ATCGCGCACC ACGTTTCTTA	60
40	ATTTTACCGA CTATTATATT AATTGGTATT TTAGGTAGTA CAGCCGGCGA TGCTGCGACA	120
	ATTTCTTGCC GCCGCTTGCA GCAATGCTTT TTATTAAAAT TGGCTATCAC CCTATCGCTG	180
45	GACTAACGAT GGCATATGCT TCCGCTGTTG GAGGATTTGC AGCAAATATA GTTGTTGGTA	240
. 40	TGCAAGATGC TTTGGTCTAT TCATTTACAG AACCGGCAAC ACGTATCGTT TCAGATTCTA	300
	TTAAAACAAA CGTT	314
50	(2) INFORMATION FOR SEQ ID NO: 4305:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4305:	
5 .	CGTTGCAGAA TGTGTTGAAA TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG	60
	CCATTAATTT ACGGTTACCA ACCAATATAT GGTGATGATC AATCGTTGCT TCAATACCAT	120
	GGCCAGGTAC TGCTTTAAAT GTTGTTGTCT CAGTTAATAT TAATTGCTTT TCTTTTGCAT	180
10	AATTGACAAT GGCTTCTGCC AATGGGTGTT CAGAATCTTT TTCAGCAGTA GCAAGTAGTT	240
	GTAGCGTTTG ATTGTCACCA TGATAATCTG TCACGACTGG GACGACCATT TGTAATGGNA	300
15	nccgtcctta tctaaaacga tgggtatcaa tttgatgngg gcgg	344
	(2) INFORMATION FOR SEQ ID NO: 4306:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4306:	
	AGTTTCCCTG AAAATTAATC AAGGACTTAA CATTGCGAGT CAAGGTATTG ATCAAGCTAA	60
	TGGACAGTTA AATGATGCCA AAGCTTCGTC ACACAAGTTA GAAGTAGAGT CGGTGATTAT	120
30	CAAGATGCAA TTCGACGCGC GCAAGATTTA AATCGAAGAA ACCAGCAACA GATTCCTCAA	180
	AATAGCGCGG CGAACAACGA AACATCAAAT AGTGCACCTG CAGCTGGTAA TGGTGTAGCA	240
15	TCAACGCCAC CAAGTGCACC AAGTGGCGAT ACTGCACCAA ATAATAATGT TACGCAAAAT	300
	ACCGCACCAG ATGAGTGAAT AATGCGCCTG TATCGACTAC ACCACAAATG ACAnnCCGGG	360
	GAANAGATGG TCAAATTT	378
0	(2) INFORMATION FOR SEQ ID NO: 4307:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4307:	
	GGACTTGGGT ATTCCTCCAA AATTATATGG ACCTTGCAGG ACTCGAACCT GCGACCGAAC	60
	GGTTATGAGC CGTTAGCTCT AACCAACTGA GCTAAAGGTC CTADATATAA TTTTACAACT	120

	CTAGCCAGCT GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG	24
	GATCGAACCG CTGGACCTCC TGCGTGGCAA AGCAGNCGCT CTCCCAGCTG NGCTAAGCCC	30
5	CCATAATAAT TACAGTAT	31
	(2) INFORMATION FOR SEQ ID NO: 4308:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4308:	
	TGTACGTTTA ATACCTATGA TATATGCTGC AAGTCTCATA TCTATTTTTC GGTTTTGAGA	. 60
20	CAATTCGTAA ATCGTATCAA ATGCCGCTTC TAATTTTTCA CGTAGCTTTT CATTAACTTC	120
	TTCTTCAGAC CAATAATAAC CTTGATTATT TTGTACCCAT TCGAAGTAAG AAACCGTTAC	180
	ACCACCAGCA CTTGCTAATA CGTCTGGAAC TAATAATATA CCACGTTCAG TTAAAATACG	240
25	TGTTGCTTCT GGTGTTGTAG GTCCATTAGC AGCTTCAACA ACGATACTAG CTTTAATATC	300
	ATGTGCATTG TCCTCnGTAA TTGGGTTGAA TAGCGnGGGA CTAAATGCAC ATCNAATCAA	360
30	CAATCCTATT GGATGTCCCA AMAATTGTAC GACCAACACC	400
50	(2) INFORMATION FOR SEQ ID NO: 4309:	-
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4309:	
	CAAATAAACC AGAGCTAGTT GCAATTGCTG AACCACATCC TAATAGACCG AAAAAGAGAA	60
45	GTAGACGTGC GGCACCGGCA GATCCTAATG CAACTCCAGC AGATCCAGCG GCTGCAGCGG	120
70	GTAGGAAACG GTGGTGCACC AGTTGCAATT ACAGCGCCAT ATACGCCAAC AACTGATCCT	.180
	AATGCCAATA ATGCAGGACA AAATGCACCT AACGAATHGT TGTTCATTTG ATGACAATGG	240
50	TATTAGACCA AGTACCAACC GTTCTGTGCC ACnTnAAACG TTGTTAATAA CTTGCCGGGC	300
	TTCACACTAA TCAATGGTGG CAAAGT	326
	(2) INFORMATION FOR SEQ ID NO: 4310:	
55		

	(A) LENGTH: 313 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4310:	
	TCAAAGCGCC AATAACATCT TCTACTGAAG TTTCTTTAGA TTTAGCATTC AGTGATAATG	60
10	TTATTGTTGC TTTTTCTTCC ATTGGAATAC TTTGATGAAT CGTTAATACA GATAGTTCTA	120
	ACTITGATAT AACATCTAGT ACACGTGCCA ACATACCAAC AATATCAGTT ACATATAAAA	180
15	TTAATGTAAA TTCTCGATGG TCAAGCATTT TATCGGCTAC TGGAAATATC GTTTCTCTAT	240
	ATHITATAAHA AGCACTICTA GATAGATCAA ACTGTTTAAC GGCATCATAA ATGGHCAATG	300
	TCGGATCACT TTT	313
20	(2) INFORMATION FOR SEQ ID NO: 4311:	
•	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4311:	
	GGTTCGAATC CAGCTAGCCC AGCCATTAGA GCCATTAGCT CAGTTGGTAG AGCATCTGAC	60
	TTTTAATCAG AGGGTCAGAG GTTCGAATCC TCTATGGCTC ACTACTTGCA CTTTCCATTT	120
3 5	TTGGGAAGTG CTTTTTTTTA GGTTCTCCAC CAAATGTGGT GGGTATATAA TTTAAAGAAC	180
	TATTTTTAAA ATACAACTTT TAGAGCTTTT ATTATTAGGC GGCCAGTCCA TTATTGGGGC	240
	TGGTTGTCTT CnTTTTTCT CCTTTGTACA AGCTGAAAAT CATCATTATA CGTGCTTAAA	300
40		
	GTGGTGAATT CTGAACCAAA GAATCACTTG ATAATTTATC TATATAATCC TCMATAGACC	360
	ATATAATGCT GGAATAATGG ATCTACANCC TGAGTTCCAN	400
45	(2) INFORMATION FOR SEQ ID NO: 4312:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
		i
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4312:	

	ACTTACAGCT CCCCAAAGCA TATCGTCGTT AGTAACGTCC TTCATCGGCT TCTAGTGCCA	120
	AGGCATCCAC CGTGCGCCCT TAATAACTTA ATCTATGTTT CCACCATTTT TATAAGTCAA	180
5	ACGCTCACAT ACGGCTTCGT TTTCATTATT TTAAATGCTC ATTTACATAA GTAAACTCTG	240
	CTTTAAAATA ATTAACTCAT TGTCTGCnAA ACGTTTTCnT TTATAAAAAG ATTAAACGCG	300
	TTATTAAnCT GTGGAGTG	318
10	(2) INFORMATION FOR SEQ ID NO: 4313:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4313:	
	ACGGTGATCA CTCACCGCAG ATTTTAAGTC CTGTGCGTCT GCCAGTTCCG CCACCCCGGC	60
	ACTATAAAAA TGGAGCAGAA GACGGGATTC GAACCCGCGA CCCCAACCTT GGCAAGGTTG	120
25	TATTCTACCG CTGAACTACT TCTGCATATG CGGGTGAANG GAGTCGAACC CCCACGCCGT	180
• •	AAGGCATAGA TCCTAAGTCT AGTGCGTCTG CCAATTCCGC CACACCCGCA AATGGTGAGC	240
30	CATAGAGGAT TCGAACCTCT GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCn	300
	AATGGTTCTT CCATGG	316
	(2) INFORMATION FOR SEQ ID NO: 4314:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4314:	
45	AGGAAAAGTC GTTGTGATAC ATCAACCAGC TGAAGAAGTA CCACCAGGTG GTGCTAAAAC	60
40	AATGATTGAA AATGGTGTAT TAGACGGTGT TGATCATGTA TTAGGTGTAC ACGTCATGAG	120
	CACAATGAAA ACAGGTAAAA GTGTATTACC AGACCTGGTT ATGTTCAAAC AGGACGCGCA	180
50	TRCTTCAAAT TGAAAGTCAA GGTAAAGTGG TCATGGTTCA TCACCACATA TGGCCAATGA	240
	TGCCATTGTT GCAGGTAGCT ACTTCGTCAC AGCGTTACAA ACAGTGTATC TAGACGACTA	300
	GGCCATTTGA ACCGGTGGTT TCACATCGGT CATTTnCCGT AAAAGnCCAT TCCATG	356

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
io	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4315:	
	TATCAGCATT TGTAACTGTT ATTGTTTATA ACTTCTGTGT GAAGCGCAAT ATTACAATTA	60
	AAATGCCGAA AGAAGTACCG CCGAATATTT CACAAGTATT TAAGGACTTA ATTCCATTTT	120
15	CAGCGGTAAT CATCATTCTT TATGCATTAG ATTTAGTCAT CGCAACAGCT TTAAATCAAA	180
	TGTAGCGGAA GGNATTTTAA AATTATTCGA ACCATTATTT ACAGCAGCAG ATGGGATGGA	240
	TTGGTGTCAC AATTATCCTT GGnGGCCTTT GCATATTCnG GGTTGTAGGG AATCAGGTCC	300
20	GTCAATGTAG AGCCAGCAAT TGCAGCCATT ACATATGCGA TATCGGAGCG GACTTCAAGT	360
	TGCCTCAGCG GAGGACACGC	380
	(2) INFORMATION FOR SEQ ID NO: 4316:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4316:	
35	GCTCTAGGAT GACTGATTGA ATGTCCATGA ATGAACAACC CCTTTGTTTA ATATCGAGTT	60
	TGGCAAATTT ACGTTTATCA GCGTTTCTAT GATCAGTACT TCTACGGGTA GCGTTTCTAT	120
	GTAATTTACA TCATCTTAAC ATATAAATAC TTCGCTATTT AATTGAAAAC ATATCCTATT	180
40	ATTCTTTGTC CGTTCTGACG TTTAATATCT AGCCTTAGGC ATTTCACTTG TTAATGAATT	240
	TAACTITCTT CCACTAACCG TCCCTAAACC CAATCCCGCA ACAGTTTTTA ACTTTTTCGT	300
	TGTTGTCCTG ACATCTCATT AAGAAAGTTT ATTCTGCTTA AAACTTATAA TCCACACCCT	360
45 .	GAGCAAACGn TnCTTATGAC AGAGTATTAA AATAAGCCGn	400
	(2) INFORMATION FOR SEQ ID NO: 4317:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4317:	
	CCTTATTGAT AATGGTATGA GAATATTTGT TCGAGATGGA TGAAGGTAAT GAGTGAGAAA	60
5	CTGGATTTTT AAAGTATGAG ACAATATTTT AAAAAGTTCA ATTATTAACT TATAAGCAAA	120
	TAATTGCTAT AAAAAAGTTT GGACGTGTAC AATTGCAATA TGAAGATTTT AAATTAATTG	180
	TAAAGTATCG TGGAGTGGGT AACGTGTCAG AACATGTATA TAATCTTGTG AAAAAGCATC	240
	ATTCTGTTAG AAAATTTAAG AATAAACCTT TAAGTGAAGA CGTTGTTAGG AAATTGGTAG	300
	GAGCTGGGCA AAGCGCTTCG ACGTCAAGTT TCCTGCCAGC ATACTCCATT ATTGGTTCGG	360
15	CGGTGGGAGG TTAANGGAAT TTACGGGGAG GTTCTGGGCA	400
•	(2) INFORMATION FOR SEQ ID NO: 4318:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4318:	
	TAACTACGTC TCCTGTTTCT GGATTCTTAA TTCCTGGTTT ACCTGGAACT TCCTCTTTCT	60
30	CTCCTGTTGG TAACTTCGGA TCAAATTCGT CTCGATGACC TGGTGTTATC GTTTCTGGTC	120
	CGTATTCTGT TAATTCATTA ATCGGATCTn TTGTGATTTC TTCTTTCGAT TCACCTGTAC	180
,	TAATAATTTC TCCAGTTAAT GGATTTTTTA GTGTTGGCGT CGTTATTGTC TTCTCACCTn	240
35	TTTGTCCTTC TCTTGTAACT TTTTCTGTCC CGGTGCTAAA TnCGGATTAA ATTACGGTCT	300
	TTCTTGAAGG AATCTCTTC	319
	(2) INFORMATION FOR SEQ ID NO: 4319:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4319:	
0	AGGTGCATTG AGAGAATTTG TAAATGACGT ATTAGGACCT CAAGACGATA TTACTAAATT	60
	TGAATACTTA AAAAAATCTT CTCAAAATAC AGGTACTGTC AATTATTGGT ATTCAACTTA	120
	AAGATCATGA TGATTTAATA CAACTCAAAC AACGTGTNAA ATCATTTCGA TCCTTCCAAT	180

	:	ACAGTCATAA ATTGATTTCT AATTGAAATC ATCTTATGAC TGCTTTTTAT TATACTTTAC	300
		ATTTGCTCGT TTCGTCAGAT TGCAAACGTT TTCACTTCGC CAAGCCCATC TTTCnTTGGn	360
5		GTTTGCCT	368
,		(2) INFORMATION FOR SEQ ID NO: 4320:	
10		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 347 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4320:	
		TAAGTTAGCT ACCATCCTCG CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
20		TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT	120
		CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
		TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTCACGGT CTCAACTTGC CTGGCAACGT	240
25		TCTACTCTAG CGGAAnTAAA GTTGGnCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	30Ö
		GACAATCGCT TGCTTCTTTT CCTCTCCTnC GGCTCTCGGT TAACTCA	347
30		(2) INFORMATION FOR SEQ ID NO: 4321:	
<i>35</i>	·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4321:	
40		GGGCAAGTTA CAGTGGTGCA TGGTTGTCGT CACTCGTGTC GTGAGATGTT GGGTTAAGTC	60
		CCnCAACGAG CGGCAACCCT TAAGCTTAGT TGCCATCATT AAGTTGGGCA CTCTAAGTTG	120
		ACTGCCGGTG ACAAACCGTA GGAAGGTGGG GATGACGTCA AATCATCATG CCCCTTATGA	180
45		TTTGGCTACA CACGTGCTAC AATGGACAAT ACAAAGGGCA GCGAAACCGC GAGTCAAGCA	240
		AATCCCATAA AGTTGTTCTC AGTTCGGATT GTAGTCTGCA ACTCGaCTaC ATGAAGCTGG	300
50		aATCGCTaGT aATCgTGGTC CAGCATGCTA CGGT	334
		(2) INFORMATION FOR SEQ ID NO: 4322:	
55		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4322:	
	CTGTTAAACG ACTACAGGAA GTATTTACAA TCAAACTAAG CAAAAGTATT CAGATGCCTC	6
	AGATAAAGCT TGGGCGCATT CAAAATCTAT TTGGAGAGGC ACATCAAAAT GGTTTAGCAA	12
10		
	CGATATAAAA GTGCAAAGGG TTGGCTAATA GATATGGCTA ATAAATCGCG CTCGAAATGG	18
	GATAATATTT CTAGTACAGC ATGGTCGAAT GCAAAATCCG TTTGGAANGG AGCATCGAAA	. 24
15	TGGTTTAGTA NCTCATTACA ANTCTTTAAA GGGTTGGACT GGGGATATGT ATTCAGAGCC	30
	CACGATCGTT TTGATGCATT TCAGTTCGGC	33
	(2) INFORMATION FOR SEQ ID NO: 4323:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25 ·	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4323:	.*
30	CAATGATGCC ATGAGCAGTG CCTCCTTTAA TAGCATTTTA GCACTGTTTT GTCGTATTTT	6
	TAAATATAAA TTTGGAATGA ATAATAAAGT AGTGATTAAA TTAAGTTGTG TGATAGGAAA	120
	CTTGGACATC AATCAAAGTA ATAGGCACTA CAACGCTTAT TGGCGGGGCC CCAACAAAGA	180
35	AGCTGACGAA AAGTCACTTG CAATAATGTG CAAGTChGGG ATGGGCCCCA ACATAGAGAA	240
	ATTGGGTCCG NAATTTCTAC AGACAATGCC AGTTGGCGGG GCCCCCACAT AGAGAATTTC	300
	GAAAAGGAAT TCTACCAGCA ATGCCAGTTG GGGGANG	331
40	(2) INFORMATION FOR SEQ ID NO: 4324:	,
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4324:	
	TTACTTACTA TCTAGTTTTG AATGTATAAA TTACATTCAT ATGTCTGGTG ACTATAGCAA	60
55	GGAGGTCACA CCTGTTCCCA TGCCGAACAC AGAAGTTAAG CTCCTTAGCG TCGATGGTAG	120

	GCATTGAGAC CGCAAGNTCT TTTTTTTATG TCTAAAACGT CAAAATAAAA AGCAAACACA	240
٠.	AAGAAAAATG GCTTGGCGAA GTGAAAACGT TTGAATCTGC CGAACGAGAA AGAGCG1ACC	300
5	GAGTTTAGTA GANTAAATGA GTAAGCGAGA	330
	(2) INFORMATION FOR SEQ ID NO: 4325:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4325:	-
	TTCATCCGCT CACTTTTCAA CGTAATCGGT TCGGTCCTCC ATTCAGTGTT ACCTGAACTT	60
20	CAACCTGACC AAGGGTAGAT CACCTGGTTT CNGGTCTACG ACAAATACTA AACGCCCTAT	120
	TCAGACTCGC TTTCGCTACG GCTCCACATT TACTGCTTAA CCTTGACATC AAATCGTAAC	180
	TCGCCGGTTC ATTCTACAAA AGGCACGCCA TCACCCATTA ACGGGCTCTG ACTACTTGTA	240
25	AGCACACGGT TTCAGGTTCG ATTTCACTCC CCTTCCGGGG TGGCTTTTCA nCTTTCCCTC	300
	ACGGNACTGG TTCAC	315
30	(2) INFORMATION FOR SEQ ID NO: 4326:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
3 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4326:	
40	TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTTGCGGT TAHATGCGGC TCATCGCATC	60
٠.	CACTITITIGC CIGGCAACGI ICTACTCIAG CGGAACGIAA GINGAACIAC CATCGACGCI	120
	AAGGAGCTTA ACTICITGIT TCGGCATGGG AACAGGTGTG ACCICCTTGC TATAGICACC	180
45	AGACATATGA ATGTAAATTA TACATTCAAA ACTAGATAGT AAGTAAAAGT GTTTTGCTTC	240
	GCAAAACCAT TTATTTTGAT TAAGTCTTCG ATCGnTTAGT ATTCGTCAAC TCCACATGTC	300
50	ACCATGCTT	309
<i>3</i> 0	(2) INFORMATION FOR SEQ ID NO: 4327:	
	(i) SEQUENCE CHARACTERISTICS:	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4327: AAAGCTTATA AACGCTCATC TGACATTGTA GAATTCATGC TTTCAAAAGA CGATATACTA CGACACTCCT ACGAACTTGT CCAAAGGATTA CGAAAAGACC TAAAGGTTATG TAATTAGCCT AAAATTTATTA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAAGG TGTATAGGAAA GTGGTTAAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA 2 TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATTA AATAAACTTA TTACCCAGCA (2) INFORMATION FOR SEQ ID NO: 4328: (3) LENGTH: 340 base pairs (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA ATCCAACGACC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGCACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCG TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTHTCT HACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4327: AAAGCTTATA AACGCTCATC TGACATTGTA GAATTCATGC TTTCAAAAGA CGATATACTA CGACACTCCT ACGAACTTGT CCAAGGATTA CGAAAAGACC TAAGGTTATG TAATTAGCCT AAATTTATTA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAGGG TGTATGGAAA GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAAGATAA AATTAATCAA GTGAATTCT TTTGGTTACA G (2) INFORMATION FOR SEQ ID NO: 4328: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA AGTCCACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 35 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTGTAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		(5) 10102011. 1111011	
AAAGCTTATA AACGCTCATC TGACATTGTA GAATTCATGC TTTCAAAAGA CGATATACTA CGACACTCCT ACGAACTTGT CCAAGGATTA CGAAAAGACC TAAGGTTATG TAATTAGCCT AAATTTATA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAGGG TGTATGGAAA GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA 2 TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATAA AATTAATCAA GTGAATTTCT TTTGGTTACA G (2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 25 CCCCGACAGG ACGGAAAGAC CCCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	5	(wi) SPOURNOR DESCRIPTION, SPO. ID NO. 4227.	
CGACACTCCT ACGAACTTGT CCAAGGATTA CGAAAAGACC TAAGGTTATG TAATTNGCCT AAATTTATTA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAGG TGTATGGAAA GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATNA AATTAATCAA GTGAATTTCT TTTGGTTNCA G (2) INFORMATION FOR SEQ ID NO: 4328: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 25 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		•	
AAATTTATTA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAGGG TGTATGGAAA GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA 2 TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATNA AATTAATCAA GTGAATTTCT TTTGGTTNCA G (2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 25 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			60
GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA 2 TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATNA AATTAATCAA GTGAATTTCT TTTGGTTNCA G (2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDENDESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 25 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGGCC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	10 .	CGACACTCCT ACGAACTTGT CCAAGGATTA CGAAAAGACC TAAGGTTATG TAATTNGCCT	120
TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATNA AATTAATCAA GTGAATTTCT TTTGGTTNCA G (2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS:		AAATTTATTA ATCGTTTAAA TTCAGTTAGT AAAAAGTCTG TGAGTAAGGG TGTATGGAAA	180
TTTGGTThCA G (2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GTGGTTAAAT ATTATAGAAA ACATCAAAGG ATGTTAAGAA ATACAATTTA TTACCCAGCA	240
(2) INFORMATION FOR SEQ ID NO: 4328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGThTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	15	TTTAATAATG GTGCTATAGA AGGAATTAAT AATAAGATNA AATTAATCAA GTGAATTTCT	300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTNTCT NACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear		TTTGGTTnCA G	311
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTTTCT NACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		(2) INFORMATION FOR SEQ ID NO: 4328:	
(A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (xi) SEQUENCE TGTCGGGTAA GTTCCGACCC GCGCGCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 25 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTTTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	20	(4) GROUNIGE GUADA CHIRDA CHIR	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTTTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT NACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328: TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 10 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(D) TOPOLOGY: linear	
TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	25		•
TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:			
CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328:	
TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC 35 CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	30	TAGCTTCTGC GAGCTAGCGG AATCGAAGCC CCAGTAAACG GCGGCCGTAA CTATAACGGT	60
CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		CCTAAGGTAG CGAAATTCCT TGTCGGGTAA GTTCCGACCC GCACGAAAGG CGTAACGATT	120
CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		TGGGCACTGT CTCAACGAGA GACTCGGTGA AATCATAGTA CCTGTGAAGA TGCAGGTTAC	180
TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA 40 (2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	35	CCGCGACAGG ACGGAAAGAC CCCGTGGAGC TTTACTGTAG CCTGATATTG AAATTCGGCA	240
(2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		CAGCTTGTAC AGGATAGTAG GAGCTTTGAA ACGTGAGCGC TACTTACGTG GAGGCGCTGG	300
(2) INFORMATION FOR SEQ ID NO: 4329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		TGGGATACTA CCCTAGCTGT TTTGGTnTCT nACCCGACCA	340
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	10	(2) INFORMATION FOR SEC ID NO. 4329:	
(A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		(a) Interdation for one and the contract of th	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:			
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:		(A) LENGTH: 325 base pairs	•
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	15	(B) TYPE: nucleic acid	•
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:			
		(D) TOPOLOGI: TIMERI	•
አአተርርአዊአርር ርአአአተርዊአቸን ሮርስጥርትሮርርን ፕሮርርጥርርፕሮር ጥትትትርርፕንአት ጥርፕሮፕላርርጥር	50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:	
MATCHAING GAMATGINIA CONTENCEN IGGGIGGITO IMMAGGINAM IGTCINGCIT		AATCCATAGC GAAATGTATA CCATCACCCA TGCGTCCTTC TAAAGGTAAA TCTCTACCTT	60
TTTGTGCACC AGTACATAAT ATAATGGCAT CATACTCAGA TTCTAACGTT GCTTTATCAA		TTTGTGCACC AGTACATAAT ATAATGGCAT CATACTCAGA TTCTAACGTT GCTTTATCAA	120
55	55		

	TACGACGTCG AACCACATCT TTATCAAGTT TCATATTCGG AATACCATAC ATTAATAAAC	240
_	CGCCTGATTC TCTAGCACGT TCATAAATAG TTACTTGnTA TCCTnGTAGA TTAAGTTCTT	300
5	CAGCAGCAGT AATCCTGnTG GACCG	325
. "	(2) INFORMATION FOR SEQ ID NO: 4330:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4330:	
	CACTTCACCA CAGCCGCCAT GGCAGGNGCA GTAGGAATCG AACCCACACC AAAGGTTTTG	60
20	GAGACCTCTA TTCTACCGTT GAACTATGCC CCTATTAAAA ATAATAAATG GAGGGGGGCA	120
	GATTCGAACT GCCGAACCCG AAGAGCGGAT TTACAGTCCG CCGCGTTTAA CCACTTCGCT	180
	ACCCCTCCAT AAATGGTGCG GGCGnGnAGG ACTTGAAACC CCCAACCTAC TGATTACAAG	240
25	TCAGTTGCTC TGACCAATTG AGCTAAGGCC GGCTAAGAAA TGGTTCCAGG ACAGAGTCGA	300
	AACTGCCGAC ACATGGGAGC TTTCAAT	327
30	(2) INFORMATION FOR SEQ ID NO: 4331:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	N.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4331:	
40	GCATCATTTT CAGCTTCCCA CTTCCACATT TGGAAAATTT CTCCAGTAAC AATGAAAGAC	60
	CATATACTT TTCCTACAAG AGCAGGACCC GGTAACAATA CAGGTTGGTA ATGCCCAATA	120
	ATAATGACCA TTTCCCAAAT GCCTAAGAAA ATAATAAATG TGATAATAGG TAATATAAAT	180
45	TTGTTATTTG TGGGACGTGT CATGAACGCG ATGCCTCCTT ATACAATGAC GGTTCAACAA	240
	AGTCATCATA TGCAGGTGGA TTAAACAAAT GATGTTGTTT TACCAATGTC GTAATTTCTT	300
50	GGATAGCCGG ATGGNTTAAA TTGTTAAAAT CACCATAGGG TGTCCCNGCC GTGGACTGTG	360
	GTTAAAAACG TCACGGACTT TGTTTAAAAN GGTGCGTCAT	400
	(2) INFORMATION FOR SEQ ID NO: 4332:	

5	(A) LENGTH: 366 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(wi) CROWINGE DECERTION ORD TO NO. 4333	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4332:	
10 -	CTGGTATGCA GATTTACCAC CTGCCTCTCC ACAAnTnnGG GGAGAGCAAA CAGATGTGCC	60
	TGAATCAAGT GACTGGTATA ACGCATCATA CATTATTATG TGGGGCTCTA ATGTACCTTT	120
	AACACGTACT CCGGATGCAC ATTTTATGAC TGAAGTCCGC TATAAAGGTA CAAAAGTCAT	180
15	TTCAGTAGCA CCAGATTACG CAGAAAATGT GAAATTTGCA GATAACTGGC TAGCACCGAA	240
	TCCTGGTTCA GATGCTGCAA TTGCACAAGC AATGACGGCA TGTTATTTTA CAAGGAACAT	300
20	TATGTTAAAT CCAACCTGAA TGAACGGTTT TTATTAAATT ACGGTTAAAA CCATTATTAC	360
20	CAGGAT	366
	(2) INFORMATION FOR SEQ ID NO: 4333:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4333:	
	TATTATTTCA TTGAGCAGAA AGAAAATTAT GGCACCAAAC TTTAATATTT TTTTCAATGT	. 60
35	CATTCTTTTG ANGGGAGTGG GACAGAAATG ATATTTTCGC AAAATTTATT TCGTCGTCCC	120
	ACCCCAACTT GCATTGTCTG TAGAAATTGG GAATCCAATT TCTCTTTGTT GGGGCCCATC	, 180
	CCCAACTTGG CACATTATTG TGAAGCTGAC TTTTCGTCAC TTGCTGTGTT GGGGCCCTCA	240
40	CCCCAACTCG CATTGCCTGT AGAATTTCTT TTCGAAATTC TCTGTGTTGG GGCCCCTGGA	300
	CTGAGAATTG GAAAAAAGCT TGTTGACAAG CGCnATTTTC GTTCCATGCA ACTGACTGCC	360
45	AAGAGAACnT CGTGAGAGCC ATGAAGAAGA TTGGATTTGA	400
•	(2) INFORMATION FOR SEQ ID NO: 4334:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

•	CGCCCTTAAT AACTTAATCT ATGTTTCCAT CCTACAGGAA ACGCGTTATT	AATCTTGTGA	60
_	GTGTTCTTTC GAACHTATGC GATTATTTCT TATGAATTCA AGCTTATTTA	AAACTCTTTA	120
5	TTCACTCGGT TTTGCTTGGT AAAATCTATA TmTTACTTAC TTATCTAGTT	TTCAATGTAC	180
	AATTTCTTTT TAGTCAAGCG CTCGCATAAG CAATATCACT TTAACCAAAA	AATATTTGAA	240
10	TGTTAAATAA ACATTCAAAA CTGAATACAA TATGTCACAT TATTCCGCCA	TCTTCTGnAA	300
	GAAGATGTT		309
	(2) INFORMATION FOR SEQ ID NO: 4335:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4335:		
	nAGGACTTTT CTCGGTCAGT GTGAAAATCA ACGCACTCGT ANACACAATG	TCTTCTCCC	60
25	ATCACAGCTC AGCCTTAACG AGTACCGGTA TTTGCCTAAT ACTCAGCCTT	ACTGCTTAGA	120
	CGTGCAATCC AATCGCACGC TTCGCCTATC CTACTGCGTC CCCCCATCGA		180
	TATAGGTGGT ACAGGAATAT CAACCTGTTA TCCATCGCCT ACGCCTGTCG	•	240
30	AGGACCCGAC TAACCCAGAG CGGACGAGCC TTCCTCTGGA AACCTTAGTC	•	300
	CGGGATTCTC ACCCGTCTTT CGCTACTCA		329
35	(2) INFORMATION FOR SEQ ID NO: 4336:	.`	723
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	· ·		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4336:		
45	CAAAGTGACA GGTGGTGCAT GGTTGTCGTC AGCTCGTGTC GTGAGATGTT	GGGTTAAGTC	60
	CCGCAACGAG CGCAACCCTT AAGCTTAGTT GCCATCATTA AGTTGGGCAC	TCTAAGTTGA	120
50	CTGCCGGTGA CAAACCGnnn GAAGGTGGGG ATGACGTCAA ATCATCATGC	CCCTTATGCA	180
	TTTGGGCTAC ACACGTGCTA CAATGGGACA ATACAAAGGG CAGCGAAACC	GTGAGTGCAA	240
	GCAAATCCCA TTAAAGTTGT TCTCAGTTCG GATTGTAGTC TGCAACTCGG	ACTACATGAA	300

	(2) INFORMATION FOR SEQ ID NO: 4337:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4337:	
	CCAGCACCGG GGCAGGCGTC ACCCTCATAC ATCACCTTAC GGTTTAGCAG AGACCTGTGT	. 6
15	TTTTGATAAA CAGTCGCTTG GGCCTATTCA CTGCGGCTCT TCTGGGCGTT AACCCTAAAG	120
	AGCACCCCTT CTCCCGAAGT TACGGGGTCA TTTTGCCGAG TTCCTTAACG AGAGTTCGCT	180
	CGCTCACCTT AGAATTCTCA TCTTGACTAC CTGTGTCGGT TTGCGGTACG GGCACTATTT	240
20	TCTATCTAGA nGGCTTTCTC GGCAGTGTGA AATCAACGAC TCGAAGACAC ANTGGCTNCT	300
	CCCATCAGAG CTCAGCCTTA ACGA	324
25	(2) INFORMATION FOR SEQ ID NO: 4338:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4338:	
35	CGGACATCAA ACGGATGCTG CTCGATTGGC AAATGCATAT AACTAGTAAC ATGATCATCG	60
	ACATCAAATT TAGATGATCA AATGTCCCCA ATCATTAATT TGATTCGGTT GTTTGCTCAA	120
	TTGATTATAT GTTTTTCCTA GCACTTCATG CGGCACCATA TCTTTACCTA GTAGCCACAA	180
40	AGATAAGTCT AACAAGTGGC AACCATAATC GATTAAACTA CCGCCACCTT GCAACGCTTT	240
	ATTGGTAAAA ACACCCCAGC CAGGCACTTT ACGCCTACGC ATCGCTTGTA CACGTGCTAC	300
	TAAAGGTTTA CCAACCACAC CTGATTCAAT TGCTTTTTTA GCAGTAATTG CCACATCTGT	360
45	GTGACGATAA TGATATGCGC CAGTAATAnT TTGTGnTTT	399
	(2) INFORMATION FOR SEQ ID NO: 4339:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4339:	
5	TGAGGCGATT ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG	. 6
	CTTGGTAAAA TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGGC	120
	CTAAGTGGAC TCGAACCACC GACCTCACGC nTATCAGGCG TGCGCTCTAA CCAGCTGAGC	180
10	TATAGGCCCA TTTNTTTGAA TGTTAAATAA ACATTCAAAA CTGGAATACA ATATGTGCAC	240
	GTTATTCCGC ATCTTCTGAA GAAGATGTTn CCGAATATAT CCTTAGAAAG GAGGTGATCC	300
	AGCCGCACCT TCCGGATACG GCT	323
15	(2) INFORMATION FOR SEQ ID NO: 4340:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4340:	
	GGCTAGCCCT AAAGCTATTT CGGAGAGAAC CAGCTATTTC CAGGTTCGAT TGGAATTTCT	, 60
	CCGCTACCCT CAGTTCATCC GCTCACTTTT CAACGTAAGT CGGTTCGGTC CTCCATTCAG	120
30	TGTTACCTGA ACTTCAACCT GACCAAGGGT AGATCACCTG GTTTCGGGTC TACGACCAAA	180
	TACTAAACGC CCTATTCAGA CTCGCTTTCG CTACGGCTCC ACATTTACTG CTTAACCTTG	240
	CATCAAATCG TAACTCGCCG GTTCATTCTT ACAAAAGGCA CGCCATCACC CATTAACGGG	300
3 5	CTCTGAACTA ACTTGGTAAA GCnCCGGTTT nCnGGTCCAA TTTT	344
	(2) INFORMATION FOR SEQ ID NO: 4341:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4341:	
	TGTACCACCT ATAATCGTTT TAATCGATGG GGGGACGCAT AGNGATAGGC GAACGTGCGA	60
50	TTGGATTGCA CGTCTAAGCA GTAAGGCTGA GTATTAGGCA AATCCGGTAC TCGTTAAGGC	120
	TGAGCTGTGA TGGGGAGAAG ACATTGTGTC TTCGAGTCGT TGATTTCACA CTGCCGAGAA	180
	AAGCCTCTAG ATAGAAAATA GGTGCCCGTA CCGCAAACCG ACACAGGTAG TCAAGATGAG	240

	TTCnGGGAAA AAGGGnTCCC CTTTAAGGGT TAACCGCCCC AAAAAACCCC C	351
•	(2) INFORMATION FOR SEQ ID NO: 4342:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4342:	
15	AATAATGACT CCTACGGGAC TCGAACCCGn GTTACCGCCG TGAAAGGGCG TGTACTTAAC	60
	CGTATGACCA AGGAGCCATG GCTCACCAGG TAGGACTCGA ACCTACGACC GATCGGTTAA	120
	CAGCCGATAG CTCTACCACT GAGCTACTGT GGATTAATAT TATGCCTGGC AACGTTCTAC	180
20	TCTAGCGGAA nTAAATTCGA ACTACCATCG ACGCTAANGA GCTTAACTTC TGTGTTCGGC	240
	ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT	300
	TCAAAACTAG ATAGTAAGTA AAAGTGA	327
<i>25</i>	(2) INFORMATION FOR SEQ ID NO: 4343:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4343:	
	ACCGCTTGGG CTGACATTTT TGGCTTGTTA AGCAGCTTGC CTACTTTTTT GGCAATAGCA	60
	CCATACGTTG TTAGAGTCCC ATAAGGAACC TGTCTTAATT CATTCCAAAC ACACTGTTGA	120
40	AAATGACTAC CTGTTGGCTT TAAAGGTATT GTGATTTCAG GATTGTCACC TTTAAAATAC	180
	GCGTCTAACC ACTGTGTCGC CTCTCTAAAT ATCGCTAAAG ACGTATTTTC TTCCCTAGTA	240
	CCATCACCTT GTTGATTTTC AAACAAAACA GCGGTCAGAC TTACCCCATC ACTCAAAAGT	300
45	TCCAAnCGTC CTGACAGGCG AAnCAGAGTG AACGCTGAGA CTCCAGAAAA ATCCCCCTnT	360
	(2) INFORMATION FOR SEQ ID NO: 4344:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4344:	
	ATTCCGACAT CTTCTGAAGA AGATGTTDCC GAATATATCC TTAGAAAGGA GGTGATCCAG	60
5	CCGCACCTTC CGATACGNCT ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC	120
	GACGGCTAGC TCCTAAAAGG TTACTCCACC GGCTTCGGGT GTTACAAACT CTCGTGGTGT	180
	GACGGGCGGT GTGTACAAGA CCCGGGAACG TATTCACCGT AGCATGCTGA TCTACGATTA	240
10	CTAGCGATTC CAGCTTCATG TAGTCGAGTT GCAGACTACA ATCCGAACTG AGAACAACTT	300
	TATGGGATTT GCT	313
15	(2) INFORMATION FOR SEQ ID NO: 4345:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4345:	
25	ATTTTATCGT AAGATTTTTT CGCAATGAGA TTTGGATCGT TTTTGTCCAC TACAATATCT	60
	AATAGTTTTA CTTTAAGTCC AGCATTCACA AAAAGTGCTG CCAGTTGAGC GCCCATTGTG	120
30	CCTGCGCCAA GAACGGTTAC TTTATTAATT GTCATAGTGA TTCCTCCAAT TTAGTTGAGG	180
50	ATAAGATAAC CATTAAGATA ATTGGAATAA CGTTGCTATT TTATAAAATT AATTAAGTAT	240
	CTTTGACAGT CATCTTAGCC TCTTATTTAA GGNAAAAGCN TTATGCTTAA NATAAGTCTT	300
35	TTTTA	305
	(2) INFORMATION FOR SEQ ID NO: 4346:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4346:	
	GTCAGTTATG GCAAGTGCAT CAACATTTTC AGACACAGCA AGTCTTACGG CATCTTCTAT	60
50	TTTTAAGCTT GAATTTAACA AATCATAAGC CGTATGAATA TTTAAATATG CCACCATGAT	120
	TGAATGGnCC CTTTCTATTA GTTAAGTTTG TGCGTAAAGC TGTAGCAAGT TGCTCAAATT	180
	CATCCCCAGC TGTCCACTGA AACTCCTGGA CGCATTCGGA TGANCAACGC CAACCAAAAT	240

	ANTACCTICA ICGACIGCAA ATACCCATAA TITCCAGCCI IGAIGICAGC AAIGIAATAA	360
	CCAACTGAGA TGCTCATTGG CTGATACGAT GnTCCATACA	400
5	(2) INFORMATION FOR SEQ ID NO: 4347:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: TUCLEIC acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4347:	
	TCTGGGTTGA GTCGGGTCCT AAGCTGAGGC CGACACGTAG GCGATGGATA ACAGGTTGAT	60
	ATTCCTGTAC CACCTATAAT CGTTTTAATC GATGGGGGGA CGCATAGGGA TAGGCGANGT	120
20	GGCGATTGGA TTGCACGTCT AAGCAGTAAG GCTGAGTATT AGGCAAATCC GGTACTCGTT	180
	AAGGCTGAGC TGTGATGGGG AGAAGACATT GTGTCTTCGA GTCGTTGATT TCACACTGGC	240
	CGAGAAAAGC CTCTAGATAG AAATANGTGC CCGTACCGCA ACCGACACAG GTAGTCCAAG	300
25	ATGAGATTCn TAAGGTGGAG CGACGAATCT CCGTTAA	337
	(2) INFORMATION FOR SEQ ID NO: 4348:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4348:	
	GTTAAGACAC CGCCCTTTCA CGGCGTAACA CGGGTTCGAG TCCCGTAGAG GTCACCATTT	60
40	TTTAGGTCTC GTAGTGTAGC GATTAACACG CCTGCCTGTC ACGCAGAGAT CGBGGGTTCG	120
	ATTCCCGTCG AGACCGTACA AATGCCTATC CAAGAGGATA GNATTTTTT TGCGTTTAAT	-180
	ATTATATTAA TAAAAGATAT ATGGACGAAT GATAATCATA TTGATTTATC TGTTCGTCCA	240
45	TTTTCTTTAA AATGTATGAA CCTCAAGTAA CTTAGTGGTT GGATATGAAA GATAAACGTm	300
	GACAATAAAA TCTTTATT	318
	(2) INFORMATION FOR SEQ ID NO: 4349:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
,	(C) SIMMUDDADS. WOMELE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4349:	
	CTTTAAAGCA CGTATAATGA TGATTTTCAG CTTGTACAAA GGAGAAAAAA AGAAGACAAC	6
5	CAAGCCCAAT AATGGACTGG CCGCCTAATA ATAAAAGCTC TAAAAGTTGT ATTTTAAAAA	12
	TAGTTCTTTA AATTATATAC CCACCACATT TGGTGnAGnA ACCTAAAAAA AngCACTTCC	18
10	CAAAAATGGA AAGTGCAAGT AGTGAGCCAT AGAGGATTCG AACCTCTGAC CCTCTGATTA	24
10	AAAGTCAGAT GCTCTACCAA CTGAGCTAAA TGGCTCTAAA TGGCTGGGCT AGCTGGGATT	30
	CGAACCAACG AGTGACGGA	31!
15	(2) INFORMATION FOR SEQ ID NO: 4350:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4350:	
25	ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG	60
	GGTTCGAACC GCCGACCCTC TGCTTGTAAG GCAGATGCTC TCCCAGCTGA GCTAATTCTC	120
	CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG CCGTGAAAGG GCGGTGTCTT	180
30	AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGACT CGAACCTACG ACCGATCGGT	240
	TAACAGCCGA TAGCTCTACC ACTGNAGCTA CTGTGGATTG AATCATTATG CCTGGCAACG	300
<i>35</i>	TTCTTACTAT AGCGGAANGT CAAGTTCCGC ATNACCATAC GAAGCT	346
	(2) INFORMATION FOR SEQ ID NO: 4351:	
40 _,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4351:	
	ACGTCCTTCA TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT	60
	ATGTTTCCAC CATTTTTATA AGTHAAACGT TAACATGAAG TTACGTTCTT TTATAAAAAG	120
50	ATTTAAACGC GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG	180

	ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGGA GACTAGCGGG ATCGAACCGC	300
	TGACC	30!
5	(2) INFORMATION FOR SEQ ID NO: 4352:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4352:	
	GTTCATCAAT TGCTAATTCC AGTCCGCCTA ACGGATCAAT TTCATCCGCA TGTATTTTCA	60
	CTTTAAAACC TGGCTTCTTT GGCTTTTTGC ATATAATGTT GCGATTGTTC TATTGTAAAT	120
20	ACACCTGTTT CACAGAAAAT ATCCGCAAAG TCTGCATATT GTTTTACTTC CGGAAGTAAC	180
	GCAATCATTT CTTCTAAAAA TGCCTCATTT GAACTTGCCT CTTTAGGTAC AGCATGAGGC	240
	CCTAGGAAAG TATGTTTCAT GTCTAAATCA_TATTTCTCAG CTAAACGATT AGnCACTTTC	300
25	AA	302
	(2) INFORMATION FOR SEQ ID NO: 4353:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 411 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4353:	
	TCTACCGCTG AACTACTTCT GCGGGTGAAG GGAGTCGAAC CCCCACGCCG TARRITGAGGA	60
40	TCCTAAGTCT AGTGCGTCTG CCAATTCCGC CACACCCGCA AATGGTGAGC CATAGAGGAT	120
	TCGAACCTCT GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AAtGGCTCTT	180
	CCATGGTGCC GGCCAGAGGA CTTGAACCCC CAACCTACTG ATTACAAGTC AGTTGCTCTA	240
45	CCAATTGAGC TAGGCCGGCA ATATGTAAGA ATAAATGGTG GAGAATGACG GGTTCGAACC	300
	GCCGACCCTC TGCTTGTAAG GCAGATGCTC TCCCAGCTGA GCTAATTCTC CGnTTTAAAA	360
<i>5</i> 0	CTGCTGGCNA CGGTCTANTC TAAGGGGACG TAAGGTCGAC TACCATCGAC G	411
50	(2) INFORMATION FOR SEQ ID NO: 4354:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs	

	(D) TOPOLOGY: linear	
5		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4354:	
٠	TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC TACCCAGCTA TGCCGTTGGa	-60
10	CGACAACTGG TACACCAGAG GTATGTCCAT CCCGGTCCTC TCGTACTAAG GACAGCTCCT	120
	CTCAAATTTC CTACGACCAC GACGGATAGG GACCGAACTG TCTCACGACG TTCTGAACCC	180
	AGCTCGCGTa CCGCTTTAAT GGGCGAACAG ACAAGCCCTT GGGGACCGAC TACAGCCCCA	240
15	GGATGCGATG AGCCGACATC GAGGTGCCAA ACCTNCCCGT CGATGTGAAC TCTTGGGGGA	300
	GATAAGNCTG TTATCCCCGG GGTAACTTTT ATCCGTTGAG CGATGGGCCC TTACCATGCG	360
	GAAACCA	. 367
20	(2) INFORMATION FOR SEQ ID NO: 4355:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
23	(D) TOPOLOGY: linear	
30 _	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4355:	
	GTATTTTAAA TCATAGTGGT TTATGCGTCT TTTTCAAATT CTATAAAAAA TCGGATGACG	60
	TGTAATCTGC CATAGATTAA CACATTCATC CGATTTATAA TAATAAGATA GACTAACATT	120
35	TATTGAGAGC GGGACGGAAA TGATAAAGAA CGACTAATGA TTGATTATGT AGCGATTCTT	180
	TATCATTAGT CACAGCTAAT GTGTACTTAA AAATATGAAT GCATGAGTTA CACTCANATT	240
	AGAGGAAATA CTAATTTCTA AAGAAAAAGT ATTTCTTTAT GTTGGGGnCC ACCCCAACTT	300
40	GnCATTGTCT GTT	313
	(2) INFORMATION FOR SEQ ID NO: 4356:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4356:	•
	GGGCTGGGTT CAGAACGTCG AGGCAGTTCG YTCCCTATCC GTCGTGGGCG TAGGAAATTT	60

	TCGTGCCAng CATAAGCTGG GTAGCTATGT GTGGACGGGA TAAGTGCTGA AGATCCTGAA	180
	GCATGAAGCC CCCCTCAAGA TGAGATTTCC CAACTTCGGT TATAAGATCC CTCAAAGATG	240
5	ATGAGGTTAA TAGGTTCGAG GTGNGAAGCA TGGTGACAGT GGNAGCTGAC GAATACTAAT	300
	CGATCGAGGA CTTAATCAAA ATAAATGTTT TGCGA	335
	(2) INFORMATION FOR SEQ ID NO: 4357:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4357:	
20	GCTCTAAAAG TTGTATTTTA AAAATAGTTC TTTAAATTAT ATACCCACCA CATTTGGTGn	60
	ngaacctaaa aaaaagcact teecaaaaat ggaaagtgea agtagtgage catagaggat	120
	TCGAACCTCT GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTA	180
25 .	ATGGCTGGGC TAGCTGGATT CGAACCAACG AGTGACGGAT DAAAGTCCGT TGCCTTACCG	240
	CTTGGCTATA GCCCAATATA TAGATGGTGG AGGGGGGCAG ATTCGAACTG CCGAACCCGA	300
	AGAG	304
30	(2) INFORMATION FOR SEQ ID NO: 4358:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CECUENCE DECOLIDATION, CEO ID NO. 4355	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4358:	
	ATAATGGTGA CGTTGATGAT GCATTAACAC AAGGTAAAGC AGCAATTGAT GCTATTCAAG	60
	TAGATGCTAC TGTTAAACCT AAAGCGAACC AAGCTATTGA AGTTAAAGCA GAAGATACGA	120
45	AAGAATCTAT TGATCAAAGT GACCAGTTAA CTGCTGAAGA AAAAACTGAA GCATTAGCAA	180
٠	TGATTAAACA AATTACAGAT CAAGCTAAAC AAGGTATTAC TGATGCAACA ACAACTGCTG	240
	AAGTTGAAAA AGCGAAACTC AAGGACTTGA AGCATTTGAT AACATTCAnn TCGACTCAnC	300
50	AG	302

	(A) LENGTH: 350 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5	(6) 20102021 221022	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4359:	
10	GGTTGGGAAA TCATTGCATG AGAGTGTGAA AGGGCATAAG GGGAGCTTGG ACTGCGAGAC	. 6
	CTACAAGTCG AGCAGGGTCG AAAGAGGACT TAGTGATCCG GTGGTTCCGC ATGGAAGGGC	12
	CATCGCTCAA CGGATAAAAG CTACCCCGGG GATAACAGGC TTATCTCCCC CAAGAGTTCA	180
15	CATCGACGGG GAAGTTTGGC ACCTCGATGT CGGCTCATCG CATCCTGGGG CTGTAGTCGG	24
	TCCCAAGGGT TGGGCTGTTC GCCCATTAAA GCGGTACANG GCTGGGTTCA GAACGTCGTn	300
	AGAAAGTTCG GTCCTATCC GTCCTGGGGC GTAGGAAATT TnGAGAGGAG	350
20	(2) INFORMATION FOR SEQ ID NO: 4360:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4360:	
	AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG TGTGACGGGC	60
	GGTGTGTACA AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA TTACTAGCGA	120
35	TTCCAGCTTC ATGTAGTCGA GTTGCAGACT CACAATCCGA ACTGAGAACA ACTTTATGGG	180
	ATTTGCTTGC ACCTCGnGGT TTCGCTGTCC CTTTGTATTG TCCATTGTCA GCACGTGTGT	240
40	AGCCCAAATC ATAAGGGGCA TGATGATTTG GACGTTCATC CCCAnCTTCC TCCGGnTTGT	300
	ACACCGGCAG TTCAACTTAG AGTGCCCAA	329
	(2) INFORMATION FOR SEQ ID NO: 4361:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4361:	
<i>55</i>	AGACATAAAA AAAGAGACCT CACGGTCTCA ACTTGCCTGG CAACGTTCTA CTCTAGCGGA	60

	CTHTCCTCTC CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT	.180
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TnCGnCAAGC CATTTTTCTT TGTGTTTACT	240
5	TTTTATTTTG ACGTTTTAGG CATAAAAAAA wGAGAcCTTG CGGTCTCAAT GCGGCTCATC	300
	GCATCCATTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTGG GCTAACAACG	360
10	TCGCCAAAGA CCTTTCTTGA CTTGTGACAA TCGGCTTGCT TCTTTCCTCT CCTTCGGCTC	420
	TCGC	424
	(2) INFORMATION FOR SEQ ID NO: 4362:	
. 20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4362:	
25 .	CACAACAAGT ATCTAAGATA CTGGCCGAAG ATTGTCACAG ACGGTAGGGG AAGGGGGTCA	60
	CGTGTACGAC CCAACATGTG GTTCCGGTTC ATMGTTGTTA CGTGTTGGTA AAGAAACGCA	120
•	ATTMANTCGT TATTTCGGAC AAGAACGTAA CAATACTACA TACAACTTAG CACCATGAAT	180
30	ATGTTATTAC ATGATGTGCG TTATGAGAAC TTCGAGATCC GTAATGATGA CACATTGGAA	240
	AATCCAGCCT TTTTAGGCAA TACATTTGAT GCGGTTATTG CGAACCATAC AGTGCGAAAT	300
	TGGACAGCAG ATTCCA	316
35	(2) INFORMATION FOR SEQ ID NO: 4363:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4363:	_
	GGGTACTAAG ATGTTTCAGT TCTCCGGGTG TGCCTTCTGA TATGCTATGT ATTCACATAT	60
50	CGATAACATG ACATAACTCA TGCTGGGTTT CCCCATTCGG AAATCTCTGG ATCAAAGCTT	120
	ACTTACAGCT CCCCAAAGCA TATCGTCGTT AGTAACGTCC TTCATCGGCT TCTAGTGCCA	180
	AGGCATCCAC CGTGCGCCCT TGAATAACTT AATCTATGTT TCCATCCTAC AGGAAACGCG	240
EE	TTGATTAATC TTGTGGAGTG TTCTTTCGAA CATAGCGATT ATnTCTTATG GAATTCAAGC	300

	(2) INFORMATION FOR SEQ ID NO: 4364:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4364:	
	NTGCACTTAA GAACTTAGAC GATCGTGGTA TCGTTTATAT TGGTGCAGAA GTAAAAGATG	60
15	GAGATATTTT AGTTGGTAAA GTAACGCCTA AAGGTGTACT GCAGTTAACT GCCGAAGANA	120
	GATTGTCACA TGCAATCTTT GGGTGAAAAA GCACGTGAAG TTAGAGNATA CTTCATTACG	180
	TGTACCTCAC GGCGCTGGCG GGTATCGTTC TTGCATGTTA AAAGTATTCC AATCGTGCAA	240
20	GAAGGGCGAC GATACATTAT CCACCTGGTG TTAAACCAAT TTTAGTACGT GGTATATATC	300
	GTTCCAAAAA CGT	313
25	(2) INFORMATION FOR SEQ ID NO: 4365:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4365:	
3 5	AACCATTCGA TGCAATAGCG TCATTCTTGG ATATTAATCC CTAAATTGCC GTGATATCCC	60
	GCGTCTATCT TGGCCTGTTT CAATCACTAA ATGCGTTTTA CTACTTACAC CACTACGGGC	120
40	TAGTTAATAG TCCGACATAG CCCTCTGGTA TGCTTACAGC TACATCTGTn TTAATCACTG	180
40	CCTTTTCTTG TGGCTCAAGT ACGACAGTTC AGCTGAGAAT ATGTCATAAC CTGCATCCGn	.240
•	CTTATGATTT CGTTCGGGCA TTCTAGCATT TTCTGATAAT AGCCTTACTT GTAATGTGTn	300
45	AGTCATTTC	310
	(2) INFORMATION FOR SEQ ID NO: 4366:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGTGGTACTT CTGTTAATTG GTGAATTTGG ATACTGGTTA TATTCAGCTG CACCGCAAGC	6
	AACTTCTATT GATGGCCTAA CTGCCTTTTT ACCTCAAGCA ATGGGTATGG TAATTGTTGC	120
5	AGTCATTTAT GGCTTTATGA ATATGAAAGC AGAGAATCCA TTCCGTAATA AAATTACGTG	180
	GTTACAAATT ATTTCAGGTT TCTTCTTTGC ATTTGGTGCT TTAACATATC TTATTTCAGC	240
10	ACAACCTAAT ATGAATGGTT TAGCACTGGA TTTATCCTTC TCAACATCCG TGGTGCTGCT	300
	ACATTAANGG TATTAATTCT TAAACCACAT AAACGTCAAA GAATGGTAAT ACAATCACGG	360
	CTAGTACCAT TTAGTAGCCG CTCCGTACCG NAATTATAAA	400
15	(2) INFORMATION FOR SEQ ID NO: 4367:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4367:	
	CACCTGGACG AAACGGTTTT AGATCGTATT CAATTGAAAA GGCCGGTATT GAATGAATCA	60
	CACTTAGCAG CGATTGATCA GGAACATTTT AAATTAACTT ATTTATCAAC GGTATATGAA	120
30	GGGGATTTGG AAGATGCGTT AGAAGCATTA TGCCGAGAAG CAGTGAATGC TGTAAACAAG	180
	GCGCTCAAAT TCTAGTGTTA GATGATAGTG GATTAGTTGA TAGCAATGGC TTTGCAATGC	240
	CGATGTTACT CGCnATAAGT CATGTGCATC AATTACTTAT TAAAGCAGAT TACGNATGNC	300
<i>35</i>	TACAAATTTA ATCGCTAAAT CTGGTG	326
·	(2) INFORMATION FOR SEQ ID NO: 436B:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4368:	
	ATTATAGCCG AAATGCCCAA AATAGATTTT GACGAATATT ACGAATGGTT GCTTTACTTG	60
<i>50</i> .	CATAAATGGC TTTAGGAATA AGCATCAAGT CGCCACCAAG AATAGTAATA TCAGCTGCTT	120
	CAATGGCAAC TTCTGTACCT GTAnCAATGG CGATACCGAT ATCAGCTTTA ACTAATGCAG	180
	GTGCATCATT TACACCGTCA CCANCCATCG CAACCTTCTT ACCTTGTTGC TGTAGTTTCG	240

	GTTTTGC	307
-5	(2) INFORMATION FOR SEQ ID NO: 4369:	
.5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4369:	
15	TTCTTTCTCT TCCTCCGGGT ACTAAGATGT TTCAGTTCAC CGGGTGTGCC TTCTGATATG	. 60
	CTATGTATTC ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT	120
	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	180
20	TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAT	240
	CCTACAGGAA ACGCGTTATT AATCTTGTGA GTGTTCTTTC GAACAYTAGC GATTATTTCT	300
25 .	TATGAATTCA AGCTTATTTA AAACTCCTTA TTCAATCGGT TTTGCTTGGG TAAAATCCTA	360
	TATTTTACHT ACCHTATCGA GTTTTCAATG TAACAA	396
	(2) INFORMATION FOR SEQ ID NO: 4370:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35 .		
1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4370:	
	CAGTAAGATA ATTTTCAATT AGAAAATATC TTACTGCTGT TCTCTATTTA TACAATACTT	60
40	CGTATTGAAT GGCTTCGCTT TCCTAGGGTG CCGTCTCAGC CTCGGTCTTC GACTGGCACT	120
	GCTCCCTCAG GAGTCTCGCC ATTAATACTA CGTATTAACA TGTAATTTTA CTTTTACATA	180
45	CTTTTAAAAA ATAAGACACT TTGCCAAACT TGCACATAAA TGTTTAATTC AATAATTTGA	240
	ATTTTCTGTG TTGGGTCCCT TCGTATAATT TAATAAATAC CACTAAACTA AATTArTGAA	300
,	GTGCCTTATG TATAA	315
50	(2) INFORMATION FOR SEQ ID NO: 4371:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 322 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4371:	
<i>5</i>	GTCGTCAAAT GTACCTTCAC CAAGTAGTGA TGTACATATT TACCGCCTTG TTCAACAGCA	60
	CGTGTCGGCG CACCTGTAAT CGCAATGACA GGTATGCGTT CANATATGAA CCTGCGATAC	120
10	CGTTGACGGC ACTTAATTCG CCAACACCAA ATGTAGTAAC TAATGCAGCG AGTCCATTAA	180
	GACGGGCATA ACCGTCCGCT GCGTAACTTG CGTTTAATTC ATTTGTATTT CCTACCCAAT	240
	CTACAATGGG GTTGCTGATA ATATCGTCTA GAAAAGCGAG ATTAAAATCA CCAGGGnCAC	300
15	CAAAATTTT ATCGACGGCn TG	322
	(2) INFORMATION FOR SEQ ID NO: 4372:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4372:	
	CCTAAGTCTA GTGCGTCTGC CAATTCCGCC ACACCCGCAA ATGGTGAGCC ATAGAGGATT	60
30	CGAACCTCTG ACCCTCTGAT TAANAGTCAG ATGCTCTACC AACTGAGCNA ATGGCTCTTC	120
	CATGGTGCCG GCCAGAGGAC TTGAACCCCC AACCTACTGA TTACAAGTCA GTTTGCTCTA	180
	CCAATTGAGC TAGGCCGGCA ATATGTAAAG AATAAATGGT GGGAGAATGA CGGGTTCGnA	240
35	ACGGCGGAAC CCTCTGCTTG TAAAGCAGAT GCTCTCCAGC TTGAGCTAAA TCTCCGATTT	300
	AAAACTGCTG GGCAAGTTCT ACTCTAG	327
	(2) INFORMATION FOR SEQ ID NO: 4373:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4373:	
50	CATTTTAATT TATTGTACAG AACGAAATGT GATGTTAGTA GATCATAGGG TTGATGATAA	60
	TATTAAAGCT GAAAACGTTA TATTTATTGG CCTTTTGTGT AAACATGGAC ATTGGCATGC	120
	AGTCATTTAT GACATTGCTC AAGACAAAAC TGCCGAACTC GAAATTGAAA ATATTATAGA	180

•	TCAATTTTTA AACCCCATCG ATTCCTAAAA AACAGCAGTA AGATGATTTT CAATTAGAAA	300
	ATATCTTGCT GCTGTTCTCT ATTTATACAA TACTTCGTAT TGAATGGCTC GCTTTCCCAG	360
5	GGnGCCGCTC AGCCTGGGCC TCGACTGGCA ATGCTCCCTC	400
	(2) INFORMATION FOR SEQ ID NO: 4374:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4374:	
	TAATGGATTT TTTAGTGTTG GTGTCGTTAT TGTCTTCTCA CCTTTTTGTC CTTCTCTTGT	60
20	TACTTTTTCT GTCCCTGGTG CTAAATCAGG ATTAAATTTA CGTTCTTTCT CGAATGGAAT	120
	CTCTTCTTTT TCTACAATCG AGTCTCCTTT TACAGGTCCA TATTTTGTTA CGCTATCGAC	180
25	CGGTGGTCTA ACTACATCTC CTGTTTCTGG ATTCTTAATT CCTGGTTTAC CTGGGAACTT	240
	CCTCTTTCTC TCCTGTTGGT AACTTCGGGA TCAAATTCGT CTCGATGGAC CTGGTGTTGA	3.00
	nCGTTTCTGG GTCCGnAAGT CTGTnGAATT GCAG	334
30	(2) INFORMATION FOR SEQ ID NO: 4375:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4375:	
40	ATACATGCAA GTCGAGCGAA CGGACGAGAA GCTTGCTTnG TGAATGTTAG CGGCGGACGG	60
	GTGAGTAACA CTGGATAACC TACCTATAAG ACTGGGATAA CTTCGGGAAA CCGNAGCTAA	120
45 .	TACCGGATAA TATTTTGAAC CGCATGGTMA AAGCTTGCAA AGACGGTCTT GCTGTCACTT	180
	ATAGATGGAT CCGCGCTGCA TTAGCTAGTT GGTAAGGTAA	240
	GCATAGCCGA CCTGAGAGGG TGATCGGCCA CACTGGAACT GAGACACGGT CCAGACTCCT	300
50	ACGGG	305
	(2) INFORMATION FOR SEQ ID NO: 4376:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4376:	
	GATAAAGTGA AAGAACTCGG ACGTGACACC TATTGCACGA TTCGTTGGTT TTAAGGCAGT	60
10	AGGCGTTGAC CCGAAAATTA TGGGTATTGG GCCTGGCATA TGCGATTCCT GAAGTATTGT	120
	CACTCAGCAA TCTATCTGTT GAAGACATTG ATTTGATCGA ATTGAACGAN CATTTGCTCT	180
	CAAACGATTG CATCTATTAA AGAAGTAGGT CTAGATATAT CACGTACGAA TGTGAATGNT	240
15	GGCGCTATTG CTTTAGGTCA TCCATTAGGT GCTACAGGCG CAATGTTAAC CGCGCGTTTA	300
	CTTAA	305
	(2) INFORMATION FOR SEQ ID NO: 4377:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4377:	
30	AATGTCTTCT ACCCCATCAC AGCTCAGCCT TGAACGAGTA CCGGGTTTGN CCTAATACTC	60
	AGACCTTGAC TGCTTAGACG TGACAATCCA ATACGACACG CTTCGCCTAT CCTACTGCGT	120
	CCCCCCATCG ATTAAAACGA TTATAGGTGG TACAGGAAAT ATCAACCTGT TATCCATCGC	180
35	CTACGCCTGT CGGCCTCAGC TTAGGACCCG ACTAACCCAG AGCGGACGAG CCTTCCTCTG	240
	GAAACCTTAG TCAATCGGTG GACGGGATTC TCACCCGTCT TTCGCTACTC ACACCGGCAT	300
40	TCTCACTTCT AAGCGCTCCA CATG	324
	(2) INFORMATION FOR SEQ ID NO: 4378:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4378:	
	CATCATGCTT AGAAAACGCT TAATTTAGGT TTTGACTTTT TAATCAGAGT ATATAAGCAA	. 60
5 5	AACTTATCAT ACAGGTAAGG TGTAATAAGT ATTTTTTATT AATTGAGAAT AATTATCAAT	120

	TGGCACCAAA CTTTAATATT TTTTTCAATG TCATTCTTTT GATGGGAGTG GGACAGAAAT	240
_	GATATTTTCG CAAAATTTAT TTCGTCGTCC CACCCCAACT TGCATTGTCT GTAGAAATTG	300
5	GGGAATCCCA ATTCCTCCTT GGTGGGGGCC CATCCCCACC TTGCACATAA TGGnAGCnGG	360
	ACCTTTCCGC CGCTCCGGGG TGGGGGCCTC nACCCCAnTC	400
10	(2) INFORMATION FOR SEQ ID NO: 4379:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4379:	
20	ATAAAATATA TCACTTGAAA AATTTCATGT AGAAAAGATG ATGGATAGGC TATAAAGTAA	60
	TTGTGACTGA GATGAACTTT TATGTCTTAG ACACTACAAC ACTATATTGG CAGTAGTTGA	120
25	CTGCGGGGCC CCAACATAGA GCAAATTGGA TTCCCAATTT CTACAGACAA TGCAAGTTGG	180
20	GGTGGGCCCC AACATGAAAG AAATACTTTT TCTTTAGAAA TTAGTATTTC TTATGCATGA	24,0
	GTGTACTCAT GTTGCGATTA TTTTTNAGTA CACATTAGCT GTGGACTAAT GATAAAGGnn	300
30	TCGCTACATA ATCCATCCAT TAGGTCGTTC CTTGATTCAT TCCCT	345
	(2) INFORMATION FOR SEQ ID NO: 4380:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4380:	
;	CTAAAGCTGn CATATGCGGC TTGCCGATGA AGCCAACCCT GCTGCTGTTG GTACAAAATT	60
45	GTCGCTTTCA ATTTCTGCAT ACCAATCGAT GCCAGCTCTA TTTCTGACAA TATCCATATA	120
	TTTTGAAATT TTCTCTAATT CTTTGCCACT AACCTTTTCA CCATTCAACC AAAATTGATC	180
	CTGTGTTAAC TGGTCGTTAA AAGTGACTTT CGTTTCAGTG TAAAATTTTT CTAATGTAAC	240
50	AGATATGCTA TTATTCATGG AAGATTAGTG CTTCATCTTT TTTACCCCAA TATTTTATAA	300
	GTGCAATATC GTAGTGCAGG CTTGCCACTT TAACACGCAT AACTCCTAAA TCTCAACCAG	360
·	ATn	363

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4381:	
	ACCTGAATGA CTCAAACTTG ACTTTnCGAC AATTGACTGT nCATTTTGCA TAGTTGTATG	. 60
	nctccattnc gtaattatta gatttgttcg cttacgtcta ttgaatcata cagctttatt	120
15	ATAGTTAGCG TATTTGCACC TTTGCACATT AAACCATGTT TAATAATCAT TGAATCATTA	180
	TTAAGTAAAT TAAGGAATCT ATAATGTTCG TTAAATAAAA CTGATCCCGT TGTGGCTTCA	240
	CACCCGATAG ATAGGGATTT ACAGATAAAT TCAGGTCTCT TCCACGTCCA TATTTGGGAC	300
20	CCATCGAAAA TCGGGTTCTC AAATCATCGA ACATAACAAA AGAAGCTAAG CAACAGTAGG	360
	GCCGTTGTCA CTTAACTTCT GTTTTTCCGA TGACAGCTTC	400
25	(2) INFORMATION FOR SEQ ID NO: 4382: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4382:	,
35	GNACTACAAA GCAATGGGGT TTGCCAGTTT CTTTATTTAC TGACGAATAC TGGCAATGAC	60
	ATCAGATACA TGTGGCAnCA CCAATCCATT TCTTTTCACC ATTGATAACC CAAGTATCGC	120
	CTTGGGTTGC AGGGACTGTT TCAAGACCTC CCGCAACGTC CGAACCGTGT TCTGGTTCAG	180
40	TTAAAGCAAA GCATGTTACG CNTTCATGTG AACTGTAATT TAGGTACATA TTTCGCAATT	240
	TGTTCTTTGC TACCTCCGAA ATAGAAAGTG TTATGCCCTA AACCTTGGTG AACACCGAGT	300
45	AGGG	304
45	(2) INFORMATION FOR SEQ ID NO: 4383:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GTGCATTATT TTGGAGAATT AGCTCAGCTG GGAGAGCATC TGCCTTACAA GCAGAGGGTC	60
_	GGCGGTTCGA ACCCGTCATT CTCCACCATT TTGATTATTA AATTATATGA ATAAGCTGGA	120
5	GGGGTAGCGA ATGGCTAAAC GCGGCGGACT GTAAATCCGC TCCTTCGGGT TCGGCAGTTC	180
	GAATCTGCCC CCCTCCACCA TCTATATATT GGGCTATAnC CAAGCGGTAA GGCAACGGAC	240
10 ·	TTTGACTCCG TCACTCGTTG GTTCGAATCC AnCTAGCCCA GCCATTAGAG nCATTAACTC	300
	AGTTGGTA	308
	(2) INFORMATION FOR SEQ ID NO: 4384:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4384:	
25	AATTTTGGCC AAAACACCCA TCCGCTGTAA CTTCAGAGTG TCATTGGCAT TTATTACACT	60
.5	ATCTCCAACT CCTAGTGGAA CAACCACATC TCGTCCTTGG GGTGCATGGA ATGTTCCGTC	120
	AGCCCTGTGA ATTATTTCTT GAACTCCACC ACCTGGGGCG TTTCCAGAAC CTCTATCATT	180
30	TAATACAGCA AATGTCGGTT GCGTTAATGC TCCTGAATTA TCGGKAGCTA CACCCTTTCC	240
	TGCTAAAGTA CCAGTAGACA ATGTAGGTAT TGGCTTGATG AGATTTETAT CAGTAATGGC	300
	TTTAGADAT	309
95	(2) INFORMATION FOR SEQ ID NO: 4385:	
0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.5 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4385:	
	AAAGGTGAAA AGCACCCCGG AAGGNAGGTG AAATAGAACC TGAAACCGTG TGCTTACAAG	60
	TAGTCAGAGC CCGTTAATGG GTGATGGCGT GCCTTTTGTA GAATGAACCG GCGAGTTACG	120
o	ATTTGATGCA AGGTTAAGCA GTAAATGTGG AGCCGTAGCA NAACAGGTCT GAATAGGGCG	180
	TTTAGTATTT GGTCGTAGCC GANAACCAGG TGATCTACCC TTGGTCAGGT TGAATTCAGT	240
	AACACTGAAT GGAGGACCGA ACCGACTTAC GTTGAAAAGT GAGCGGATGA ACTGAAGGTA	300
	·	

(2) INFORMATION FOR SEQ ID NO: 4386:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4386:	
	TAGAATCTTC ATCAATATGA TCTAACCAAT ATTGATAAAA CCTTGATGTG TTTCGTGTCA	60
15	ATGACATACC ATATCGACTA GGTACCTTTT TAGAATGTTG ATTAATCAnG GCAAATATCA	120
	TGGCAAGGTC ATCTTCAAAA TGATTCGATT CAAGTGGAAG GCATATGACG TCTCATCACT	180
	ATACCCTTTT TCCCATTCTG CAAATCCACC ATAAATACTA CGCGACGCGG AACCCGGACC	240
20	CATTCGCGGC AATCTCGGTm AATCCTTATC TGGACAGCTG GCATGTCTAG CGGCTGGATT	300
	TACAAGCTGG CTGGCTAAAG CTGGCATATG CGCTTGCCGG TTGAAGCCCA ACCTGGCTGG	360
	CTGGTGGGGn ACAAATTGGT CGCTTTTCAA TTTCnGGCAT	400
25	(2) INFORMATION FOR SEQ ID NO: 4387:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4387:	
	TCAATTTATG GGGCATTATG ACTTTATATA CCTAAAATAC TATTAAGAAG TCCTGAAAAA	60
	TTCACATTAG CAGTTGGATT GTTCAACTTT ATTAATGATA AGTATGCAAA TAATTTCACA	120
40	GTGTTTGCAG CAGGGGCAAT TATGATTGCA GTACCTATAG CAATCGTATT CTTGTTCTTG	180
	CAACGCTATT TAGTATCAGG TTTAACAACA GGTGCGACAA AAGGTTAGTT TGAAATTCnC	240
	GNGTGGGGCA GAATTGATAA AGAACCACNA ATGACGATAA AGATTAAAAG GAGGACGTTA	300
45	TGGATGACGA	310
	(2) INFORMATION FOR SEQ ID NO: 4388:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4388:	
	AACATCATGC TGATGTTGTT GAATATGAAG AAGATACAAA CCCAGGTGGT GGTCAGGTTA	- 60
5	CTACTGAGTC TAACCTAGTT GAATITGACG AGATTCTACA AAAGGTATTG TAACTGGTGC	120
	TGTTAGCGAT nCATACAACA ATTGAAGATA CGAAAGAATA TACGACTGAA GTAATCTGAT	180
10	TGAACTAGTA GATGAACTAC CTGAGGAACA TGGTCAAGCG CAAGGACCCA TTCGAGGAAA	240
	TTACTGGAAA ACATCATCAT ATTTCTCATC nGGTTTAGGn ACTGAAATGG TCACGGTAAT	300
	TTTGGCGTGG	310
15	(2) INFORMATION FOR SEQ ID NO: 4389:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4389:	•
25	TTTACCATAT CATCCACTAT TTATTAAACC TAATAAAGAT GAATTAGAAG TGATGTTTAA	60
	TACAACAGTG AACTCAGACA CAGATGTTAT TAAATATGGT CGTTTGTTAG TTGATAAAGG	120
30	TGCGCAATCT GTTATTGTCT CGCTTGGCnG TGGATGGTGC TATTTATATT GATAANGAAA	180
	TCAGTATTAA AGCAGTTAAT CCACAAGGGA AAGTGGTTAA TACAGTTGGC TCTGGTGATA	240
	GTACAGTTGC AGGCATGGTG GCTGGGAATT GCTTCAGGTT TAACGTTTGA AAAGGCATTC	300
35	CA	302
	(2) INFORMATION FOR SEQ ID NO: 4390:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4390:	
	AAAGAGTGCG TAATAGCTCA CTAGTCGAGT GACACTGCGC CGAAAATGTA CCGGGGCTAA	60
50	ACATATTACC GAAGCTGTGG ATTGTCCTTT GGACAATGGT AGGAGAGCGT TCTAAGGGCG	120
	TTGAAGCATG ATCGTAAGGA CATGTGGAGC GCTTAGAAGT GAGAATGCCG GTGTGAGTAG	180
	CGAAAGACGG GTGAGAATCC CGTCCACCGA TTGACTAAGG TTTCCAGAGG AAGGCTCGTC	240

	ThCCTTACCA CCTATAATCG nTTAATCGTG GGG	333
	(2) INFORMATION FOR SEQ ID NO: 4391:	
5 · ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4391:	
15	AGTGCGTTTG TGCACANACT TGACTGNAAC TTAGTGCCAT TGCAGCACCA GCAACCCATG	60
15	GCGCAATAAG CCCAATGCAG CTATAGGGAT ACCGNCAATA TTATAGCCGA ATGCCCAAAA	120
	TAGATTTTGA CGAATATTAC GAATGGTTGC TTTACTTGCA TAAATGGCTT TAGGAATAAG	180
20	CATCAAGTCG CCACCAAGAA TAGTAATATC AGCTGCTTCA ATGGCAACTT CTGTACCTGT	240
	ACCAATGGCG ATACCGATAT CAGCTTTAAC TAATGCAGGT GCATCATTTA CACCGTCACC	300
	AACCAT	306
25	(2) INFORMATION FOR SEQ ID NO: 4392:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4392:	
	TACGGTATGC ATATCTTTTA AAACCTATTC TTTTGTTATT AGGACATATA AATTCATCAT	60
	TAAGTTCGTC ATATTTCCAA TTTTAAGTGT TGAAAATGTC ACTTTTAAAC TTTCTAGTTT	120
40	TATCTTTAAT AAACATGCCA TACGTAATAA GTGGCGTTTT ATTAAAATCA TCTATAATAG	180
	CCATATAGTT TTGCTCACTA CCATAACCTG CATCAGCTAC AATATACTCC GGTAAATAAC	240
	CGAAGGGATT TTGAATCATT GTTAAAAATG GAATTAAAGT TCTAGTATCT GTTGGGTTTT	300
45	GAATAGGGTC ATGGGATAAA CCAAATGNGG AATTTGCCNC AATTNGTAAA TGGAA	355
	(2) INFORMATION FOR SEQ ID NO: 4393:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4393:	
	CATTCCGTAA TAAAATTACG TGGTTACAAA TTATTTCAGG TTTCTTCTTT GCATTTGGTG	6
· 5	CTTTAACATA TCTTATTTCA GCACAACCTA ATATGAATGG TTTAGCAACT GGATTTATTC	12
	TTTCTCAAAC ATCCGTTGTG CTTGCTACAT TAACTGGTAT TTATTTCTTA AAACAACATA	18
10	AAACGTCAAA AGAAATGGTT ATTACAATCA TCGGCTTAGT ACTCATTTTA GTAGCCGCTT	24
	CTGTTACAGT ATTTATAAAA TAAGGAGTGT AGATGTCATG AAAAAATCAG CGGTTTAAAT	300
	GGAACCTATT CCAAAGCCAT CGCGACCAAT GGGTCATTTG GATTADTAAC GATAATGGCG	360
15	nngg	364
	(2) INFORMATION FOR SEQ ID NO: 4394:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4394:	٠.
	GATTAAAACG ATTATAGGTG GTACAGGAAT ATCAACCTGT TATCCATCGC CTACGCCTGT	60
30	CGGCCTCAGC TTAGGACCCG ACTAACCCAG GANCGGACGA GCCTTCCTCT GGAAACCTTA	120
	GTCAATCGGT GGACGGGATT CTCACCCGTC TTTCGCTACT CACACCGGCA TTCTCACTTC	180
	TAAGCGCTCC ACATGTCCTT ACGATCATGC TTCAACGCCC TTAGAACGCT CTCCTAnCAT	240
35	TGTGCCAAAG GACATGCCAC AGCTTCGGTG AATATGTTTA GCCCCGGTAC ATTTTCGGCG	300
	CATGINCACI CGACI	315
	(2) INFORMATION FOR SEQ ID NO: 4395:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4395:	
	AGCCCCCAAA TGGGTATTGA AATTGAATGG TGGGnCCTGA AnTGGACTCG AACCACCGAC	60
50	CTCACGCTTA TCAGGCGTGC GCTCTAACCA GCTGAGCTAT AGGCCCATTA ATTTGAATGA	120
	ACAAACATTC AAAACTGAAT ACAATATGTC ACGTTATTCC GCATCTTCTG AAGAAGATGT	180

	TACGACTTCA CCCCAATCAT TTGTCCCACC TTCGACGGCT AGCTCCTAAA AGGTTACTCC	300
	ACCGGCTTCG GGTGTTACAA AC	322
5	(2) INFORMATION FOR SEQ ID NO: 4396:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	v
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4396:	
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
20	GTTTTAGACA TAAAAAAAGA NACCTCACGG TCCAAACTTG CCTGGCAACG TTCTACTCTA	180
	GCGGAANTGA ATTGGCTACC ATCGNCGCTA AAGACCTTTC TTGACTTGTG ACAATCGCTT	240
	GCTTCTTTCC TCTCCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT	300
25	CTT	303
	(2) INFORMATION FOR SEQ ID NO: 4397:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4397:	
	TAAGAATATA AATGATTTTG AAAGCATTTG AAAGCTACAA CATTTCTATA AAATTTTTCA	60
40	ATAACAATTG CGCCACTAAA ACTCAAAATT TCCACCACCA ACATCCAAAT TATCAACATC	120
	GCAACATAAC CAAATGTTAT AATAAATCTA TTACACAAAG AGATAAATTA CTTATGCAAA	180
	GGCGGAGGAA TCACATGTCT ATTACTGAAA AACAACGTCA GCAACAAGCT GAATTACATA	240
45	AAAAATTATG GTCGATTGCG AATGATTTAA GAGGGACATG GATGCGAGTG AATTCCGTAA	300
	TTACATTTTA GGCTTGATTT TCCTATCGCn TCCTTATCTG GAAAAANCCG ACCAGGATnT	360
50	GCAGATGCCT GGCCAGG	377
-	(2) INFORMATION FOR SEQ ID NO: 4398:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4398:	
	TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGCT TGAGCAGTGT TTTTATTATC	6
10	GCCAGTTAAC ATGGGCAACT TCAATGCCCA TATCATGGCA ATTGTTTTAT AGCATCTTTG	12
t.	GGCATGATHT TTGACAGTAT CTGCCACTGC GATGATACCA GTTAATGAAT AATTAACAGC	18
	AATGAGCATA nCAGTTTTAC CATCTCGTTC ATAATGTGTT AAATCATCAG AAATATGCTT	24
15	AAGCAACTAA TATCATTGTC AACCATTAAT TTACCGTTAC CAACCAATAT ATGGTGATGA	30
	TCnATCCTTC CTC	31
	(2) INFORMATION FOR SEQ ID NO: 4399:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4399:	
30	TGGCTATGAT CATCCAAAAT ATGGTGAATC AATTGCTGCA GCCATTATAC TTCGCGAAGA	6
	TGAACCTCAT TACGCTGAAA TTTTAAATCA ACATATGCGA AGTCGTTTAG CAGGTTATAA	120
	AGTCCCAAGA ATGTATGTAC CAGTGACACA TATGCCGTTA AACAGTACGC AGAAACCAGA	180
<i>35</i>	TAAACTTGCG ATTCGACAAA TGATGAATGA CAAAGTCTCG CAAACACTTT AAAGGTGATA	240
	AAAATTTTTG ACATTTAGTG TAAGCGTTTA CAAATAAAGC GTGTTGTTTT TGAATTAAAT	300
	GCATTTCACA TTAGTATTCA TATTATNTTT AGGAGGAATT TATATGACAT TTGAAAAAGA	360
40	ACGGGCTTAA AACATTATTC CTGAGATGTA CTAGTATGCT	400
	(2) INFORMATION FOR SEQ ID NO: 4400:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4400:	
	CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT TTCGTCAGAT TCAAACGTTT	60

	AAAAGAGACC TCgtCTCAAC TTGCCTGGCA ACGTTCTACT CTAGCGGAAC	GTAAGTTGGC	180
_	TACCATCGTC GCTAAAGACC TTTCTTGACT TGTGACAATC GCTTGCTTCT	TTCCTCTCCT	240
5	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC	TCGTTTCGTC	300
	AFATTCAAAC GETTTCACTT CGGCCAAGGC ATTTTTCTTT GTGGTTACTT	TTTAATTTGG	360
10	ACGGTTTTAG GCATAAAAAA AAAGGGGACC CTGCGGGCTC NAAAGGGGG		409
	(2) INFORMATION FOR SEQ ID NO: 4401:		
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4401:		
	TCATGTAGAC TTTCAAGAAT CGACACATGA AAATTCAAAA CATCATGCTG	ATGTTGTTGA	60
•	ATATGAAGAA GATACAAACC CAGGTGGTGG TCAGGTTACT ACTGAGTCTA		120
25	ATTTGACGAA GATTCTACAA AAGGTATTGT AACTGGTGCT GTTAGCGATC		180
	TGAAGATACG AAAGAATATA CGACTGACAT nnATCTGATT GAACTAGTAG	•	240
30	TGGAAGAACA TGGTCCAAGC GCAAGGnCCA ATCCGAGGAA ATTGACTGGA	AAACAATCCA	300
	TCCATATTTC C		311
	(2) INFORMATION FOR SEQ ID NO: 4402:		
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
40			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4402:		
	TTAACGGATT ATTTGGCAAT TCGGTTAGTT GTCGAACAAT TGCTAGTTGG	TGATGAGTTT	60
45	AAGTCAGTCG CTAAAGATTG TGAAAGTAGA TCGGAAAATT GGTTTAAGCA	AACTGTTGCA	120
	TCATGGTGTT ACTACAGTGA TATGCCTAGC GATGTATTAC TACAACATGG	ACGTCAATGT	180
	AAATTMCAAA CGTTTATTCA TTTTGGCAGC AACTATGGAA TAAAAATGTA	TTTAAAAATT	240
50	TATGGCTAAT TGCCTGGGGA AATGACATAC GAATCTCAGG TTAAAACAGA	AAATTAAAGC	300
	AGGTCCATGT NAAGTGTGGG CGGGNCGCAT		330

(i) SEQUENCE CHARACTERISTICS:

<i>5</i>	(A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4403:	
,	TGnTCACACA TAATTTGCGG CCATATGTTG TTGGCACTGG CCGTTTTGAT TATCTGGCAC	60
	TTTGGGCCCA TATGTTGnCA AAATACGCGC CAATTGCTTC TTTATAAGTT GTTATTTTTT	120
15	TACTTTTTCC ATCGATAAGC CATACCTCTG GATGATACAT ATGATGCCCC ATCGCAGACC	180
	AATAGCGAAA TTCACCCGTT AAAGTTTCGA GCTCTGATAA TTGTATAGAC CATTGATGAT	240
	TTTGAGGTGG TACTTGATAT AAATTTTCTT CTCTAAAATA TTCATTTAAA ATGCGTTCGA	300
20	TAGCCGCATA CGCTGCCATG TTGTATTAAT CNTTAATTTG	340
	(2) INFORMATION FOR SEQ ID NO: 4404:	
? 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4404:	
	TTAACATATA TTTTGGGACC TTAGCTGGTG GTCTGGGCTG TTTCCCTnna CGAACACGGA	60
	CCTTATCACC CATGTTCTGA CTCCCAAGTT AAATTAATTG GCATTCGGAG TTTGTCTGAA	120
35	TTCGGTAACC CGAGAGGGGC CCCTCGTGCC AAACAGTGCT CTACCTCCAA TAATCATCAC	180
	TTGAGGCTAG CCCTGAAAGC TATTTCGGGA GAGAACCAGC TGATTTCCAG GTTCGATTGG	240
10	AATTTCTCCG CTACCCTCAG TTCATCCGCT CACTTTTCCA ACGTMAATCG GTTCGGTGCC	300
	TGCCATT	307
	(2) INFORMATION FOR SEQ ID NO: 4405:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

2951

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4405:

	ANACTTGAGT GCAGAAGAGG AAAGTGGAAT TCCATGTGTA GCGGTGAAAT GCGCAGAGAT	120
	ATGGAGGAAC ACCAGTGGGC GAAGGCGACT TTCTGGTCTG TAACTGACGC TGATGTGCGA	180
5	AACGTGnGGG ATCAAACAGG ATTAGATACC CTGGTAGTCC ACGCCGTAAA CGATGAGTGC	240
	TAAGTGTTAG GGGGTTTCCG CCCCTTGAGT GCTGnCAGCT AAACGCATTA AGCACTCCGC	300
	CTGGGGGAGT GACGGACCGC AAG	323
10	(2) INFORMATION FOR SEQ ID NO: 4406:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4406:	
	AATTATGGGA TGCAATGGGA TACGAACGTG TTAAAACACG TATGGAAGAC GAACTTGGAG	60
	ACTTACCACA ATGGATTAGT GATTTAGATG GTGGCTTTTA TAAACAAGAT GAGACCATTG	120
25	AATATGCAAC ACCTATTTCT CACTTCGTAA AAGATGAACT TTGGGATAAA GGTGATGCCA	180
	AACTITCCGT AACTCATGAT GATCAACTGT TACTGAAATT ACAAAGTAAA AATAATGTCA	240
	TTACCGATGA ATTCAACGGT GCGTTAGTTG ATGCGATTGA TTTACTGGGA AATGACCCTT	300
30	ACnCnAGnAT GGGTA	315
	(2) INFORMATION FOR SEQ ID NO: 4407:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4407:	
	CACCACCTCC CTACCTACTC GCCCCCCATC ATAAAATAGG TGGACAGGAA TATCAACCTG	. 60
45	TTATCCATCG CCTACCCTGT CGCCTCAGCT TAGGACCCGA CTAACCCAGA GCGGACGAGC	120
	CTTCCTCTGG AAACCTTAnT CAATCGGTGG ACGGGATTCT CACCCGTCTT TCGCTACTCA	. 180
	CACCGGCATT CTCACTTCTA AGCGCTCCAC ATGTCCTTAC GATCATGCTT CAACGCCCTT	240
50	AGAACGCTCT CCTACCATTG TCCAAAGGAA TCnCACAGCT TCGGTAATAT GTTTAGCCCC	300
	GGTACATTTT CGGCGCATGT CACTCGACTA nTG	333

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 393 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4408:	
	ATTTAATGAA GTGCTTGTTA ATGAACCAAG CGCTAAAGAT ACTGTTGAAA TTTTAAAAGG	60
	TATTCGCGAA AAATTCGAAG AACACCATCA AGTAAAATTA CCAGATGACG TATTAAAAGC	120
15	ATGTGTTGAC TTATCAATTC AATATATTCC ACAACGATTA TTACCAGATA AAGCAATCGA	180
	TGTGTTAGAT ATTACAGCAG CACATTTATC TGCGCAAAGT CCCAGCTGTC GATAAAGGTT	240
	GAAACTGAAA AACGGATTTC TGGATTTmGA AAATGATAAA CGTAAAGCAG TAAGTGCTTG	300
20	AAGGGATTTT AAAAAAGCTG ACGGACCATT CCAAAATTGG AATCCAAATC nnTTACCAGG	360
	TTAAATTTGG GAAAATGGTT AATTGGTGGG ACC	393
25 30	(2) INFORMATION FOR SEQ ID NO: 4409: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4409:	
<i>35</i>	GACTTGTGAC AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC	60
	TACTAAACTC GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA	120
	GCCATTTTC TTTGTGTTTA CTTTTTATTT TGACGTTTTA GGCATAAAAA AAAGAGACCT	180
40	TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG	240
	AAGTHAATTG GGCTACCATC GTCGCTAAAG ACCTTTCTTG ACTTGTGGAC AATCGCTTGG	300
	CnTCTnTCCT CTCCTTCGG	319
45	(2) INFORMATION FOR SEQ ID NO: 4410: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATTAAACAT TTCATTTTAA TCAATGAGAC TAANATACGC CTAACTTCGT TAACTTTTAA	6
	AATGTATTAA AATTCTAAAG TTTCTTTTGC TTTTTCnATG ATGTCATTTT TGTTTGGTAA	12
5	CCAAACATTT TCAGCTTGAG TGAATGGATA AATTGTATCT GCCTGCCTGA ACTCTTCCAA	180
	TAGGTGCTTC TAATGAAAGG ATTGCACGTC ACTTAATTCA GCTAACAACT GCTGCACCAA	240
	CACCAGCTTG CnGTTGTGCT TCTTGACTAC AAACTGACGA CCAGTTTTTC AACTGAGCAC	300
10	AATTGTGCAC ATCGATTGGT GACAG	325
	(2) INFORMATION FOR SEQ ID NO: 4411:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4411:	-
	GAGTTGGACA ATGCCGAAGC GTGAGCAAAG TTTTTACCAT GCATGGTTGC ATTTAGCGCA	60
25	ACATGACCAT AGTTTTACTA AAGCACAGCG CCAAGTGATT AAAGGCTTAC CCAATGATCC	120
	TGAAATGACG ATAGAGTCAG TATTAACTCA TTTTTCAATA GATCAGGAAG ACTANCAAGC	180
	TTATGTTGAA GGACATCTTT TGGCGTTACC GGGTTnGGCA nGTATGTTGT ATTACCGTTC	240
30	ACCACAGCAT CACTTTGAAC CACCTTTGTT AACGGGTTAA TTGGCCATTC GGGTAAGTTG	300
	TCCGACCATT GCCAAGTGGG TGATGAGTTN AGGCCAGTCC GCAAAAGATT GGGAAAGTAG	360
	TCCGGAAAAT GGGTTAAGCC AACCTGTTGC CATCCAGGGG	400
3 5	(2) INFORMATION FOR SEQ ID NO: 4412:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4412:	
	GATATATGGC AGCTCAAAGG AATGGGTTTC AGTTGAAGTG AAATTATCAC AGTCACTAGA	60
	CCCGAGCACA TTATTTCATC TCACTGACAA TGAGGCAGGA GATCGCTTTT ATATGCGTTT	120
50	GAATGATAAT CGAACGTCAT ATTTTGGCTA CAAAGCAATT CAATTATTCA AAAATAATTC	180
•	TAAAAATAAA CAATCTATTT TAAAAGACTG GGGAAAATTA AACATAACCA TCACCATTTA	240

	CCATAAATCA GATGATGAAT GGCGnGAGTT TGGCCTAAAn CATTTGGAAT ACCCGGAGTT	360
	TTAATTCCA	369
5	(2) INFORMATION FOR SEQ ID NO: 4413:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4413:	
, •	TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTCCT	60
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	120
20	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	180
,	GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG TTCNACTCTA	240
	GCGGAAGTAA GTGGGCTACC ATCGTCGCTA AAGACCTTTC TTGGACTTGT GGACAANCGC	300
25	TTGCGTCCTT nCCTC	315
	(2) INFORMATION FOR SEQ ID NO: 4414:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4414:	
	GACCATCTCC TAAGGCTAAA TACTCTCTAG TGACCGATAG TGAACCAGTA CCGTGAGGAA	60
40	AGGTGAAAAG CACCCCGGAA GGAGGTGAAA TAGAACCTGC AAACCGTGTG CTTACAAGTA	120
	GTCAGAGCCC GTTAATGGGT GATGGCGTGC CTTTTGTAGA ATGAACCGGC GAGTTACGAT	180
	TTGATGCAAG GTTAAGCAGT AAATGTGGAG CCGTAGCAGA ACAGGGTCTG GAATAGGGCG	240
45	TTTAGTATTT GGTCGTAnCC GnAAACCAGG TGATCTACCC TTGGTCCAGT TGAAGTTCAG	300
	GTTnACACT	309
	(2) INFORMATION FOR SEQ ID NO: 4415:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4415:	
5	TTTATTATAC TTTACÁTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA	. 60
	TCTTTCTTTG TGTTTGCTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTTGCGGT	120
	CTCAAATGCG GCTCATCGCA TCCACTTTT GCCTGGCAAC GTTCTACTCT AGCGGAAnTA	180
10	AGTTCGGACT ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG	240
	TGACCTCCTT GGCTATAGTC ACCAGNACAT ATGAATGTGA AATTTATACA TTCAAAACTN	300
	(2) INFORMATION FOR SEQ ID NO: 4416:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4416:	
25	AGAAAAATAA GCGAACTGnA ATAAATAAAG ATTCAATTAA CGCATCAGTA TTAGGATTCA	60
	CTCTAAAACG ATTAATAGTT TTATAAGAAG GTGTTTGATC TTGAGCTAAC CACATCATTC	120
	GAATACTGTC ATGAAGTAAT TTCTCTATTC TACGACCAGA AAATACAGAT TGAGTATATG	180
30	CATATAAGAT GATTTTTAAC ATCATCTTTG GATGATAGGA TGTTGCGCCA CGATGATGTC	240
	TGAATTCATC GAATTTGCTA TCAGGTATCG TTTCAACAAT TTCATT	286
•	(2) INFORMATION FOR SEQ ID NO: 4417:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4417:	
45	TTTGATAAAA ATGGGCCATC GTCACGAGCT TCAACAATTC GTTTCGCAAC GTTTTCGCCA	60
	AGCCCAGCCT GATATATTAC ATGAGGAGCG GTGCAAATGT TGTTAGAAAT TAAAGATTTA	120
	GTGTATAAAG CGAGCGATAG AATCATACTA GATCATATCA GTCTAAAAGT AGATAAAGGC	180
50	GAGAGTATTG CCATTATAGG TCCATCAGGT AGTGGTAAAA GTACATTTCA AAAGCAAATA	240
•	TGTAATTTGT TTAGTCCAAC TAGTGGAGAA CTTTATTTTA AAGGTAAACC CTATAATGAT	300
	\cdot	

	GTTTGGTGGA ACGNATTGGA NGATAACCAT GGATAATTCC	400
	(2) INFORMATION FOR SEQ ID NO: 4418:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4418:	
15	GTATTTACAA TCAAACTAAG CAAAAGTATT CAGATGCCTC AGATAAAGCT TGGGCGCATT	60
	CAAAATCTAT TTGGAGAGGC ACATCAAAAT GGTTTAGCAA CGCATATAAA AGTGCAAAGG	120
	GTTGGCTAAT AGATATGGCT AATAAATCGC GCTCGAAATG GGATAATATT TCTAGTACAG	180
20	CATGGTCGAA TGCAAAATCC GTTTGGnAAA GGAnCATCGA AATGGTTTAG TAACTCATAC	240
	AAATCTTTAA AAGGTTGGAC TGGGGATATG TATTCAAGAG CCCACG	286
	(2) INFORMATION FOR SEQ ID NO: 4419:	
25 30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4419:	
35	CTCACTTCTA AGCGCTCCAC ATGTCCTTAC GATCATGCTT CAACGCCCTT AGAACGCTCT	60
	CCTACCATTG TCCAAAGGNA TGCNCACAGC TTCGGTAATA TGTTTAGCCC CGGTACATTT	120
	TCGGCGCATG TCACTCGACT AGTGAGCTAT TACGCACTCT TTAAATGATG GCTGCTTCTA	180
40	AGCCAACATC CTAGTTGTCT GGGCAACGCC ACATCCTTnT CCACTTAACA TATATTTTGG	240
	GACCTTAGCT GGGTGGTCTG GGCTGTTTCC CTTTCGAACA CGGACCTTGA TCACCCCATG	300
45	(2) INFORMATION FOR SEQ ID NO: 4420:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

2957

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4420:

	GGTGAGCGGA GCGAACTCNC GTTAAGGAAC TCGGCAAAAT GACCCCGTAA CTTCGGGAGA	12
	AGGGTGCTC TTTAGGTTAA CGCCCAGAAG AGCCGCAGTG AATAGGCCCA AGCGACTGTT	18
5	TATCAAAAAC ACAGGTCTCT GCTAAACCGT AAGTGATGTA TAGGGGCTGA CGCCTGCCCG	24
	GTGCTGGAAG GTTAAGAGGA GTGGTTAGCT TCTGCGAACT ACGAATCGAA GCCCCAGTAA	300
10	ACGGEGGCCG TAACTATAAC GGTCTAGACG ATCTGC	336
,,	(2) INFORMATION FOR SEQ ID NO: 4421:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(wi) CECUENCE DECORTECTON, CEO. TO NO. 4401	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4421: GGNCACCCTC GTGCCAAACA GTGCTCTACC TCCAATAATC ATCACTTGAG GCTAGCCCTA	
		60
25	AAGCTATTTC GGAGAGAACC AGCTATCTCC AGGTTCGATT GGAATTTCTC CGCTACCCTC	120
	AGTTCATCCG CTCACTTTTC AACGTAATCG GTTCGGTCCT CCATTCAGTG TTACCTGAAC	180
•	TTCAACCTGA CCAAGGTAGA TCACCTGGTT TCGGGTCTAC GACAAATACT AAACGCCCTA	240
30	TTCAGACTCG CTTTCGCTAC GGCTCCACAT TTACTGCTTA ACCTTGCATC AAATCGT	297
	(2) INFORMATION FOR SEQ ID NO: 4422:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4422:	•
	GTACATCGTC TAATAATAAG TTGACGATAT CTTGCAATGC ATCTTTATCT AAATGTAAGA	60
	ATTCAACGAT GCCGTTGAAG CGGTTAAGGA ATTCAGGGCG GAAGAATTTT TTCATTTCGT	120
45	GCATAATATC TTTTCTTCA GCGTCATTGC CATTGCCAAA GCCAGCATTT GATGTACAAA	180
	TAATAATTGT ATTTTTAAAG TTGATGACAT TACCTTGACC ATCAGTCAAA TTACCATCAT	240
50	CCATTACTTG TAATAACAAT GTTAAAATTG TGGATTGCTT TTCGATTCAn CAATAGAATG	300
	ACTGAGANGG GATACGGCGA CTTTTCAGTA AACGGATTGA ATGGCATCAT ANCCACATAC	360
	CAGCGTGGAC CATCATTTTG GAACAGCGTG GGCACATATC	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4423:	
	AAGTTGAGTC GCATAGCTAG TATGAAACGT GGTGTGCGCA TGGGAACTAT CAAGCTTTGA	60
	AGATGTGGTA CTACATGCGT TGAATTAGGG ATCGGTACTT TATATGAAGA CGTGCTGCTT	120
15	CCATTAAATG AGTGATGCGA TTTTGGCATG AAGGTCACCT TAAATGTACA TTGTTGTAAT	180
	AAAATTGCCT ATAAATTTTT AGCACATAAA ATAAGANGNG CCAACCATTG TTAGACTATA	240
	ACAACGGTTG GCTCTTTAAT TGTAAAAAGA AAACCATACG CTATGGTAGT T	291
20	(2) INFORMATION FOR SEQ ID NO: 4424:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4424:	
	AACTGCCACC ACCTGGGGnC GTTTCCAGAA CCTCTATGCA TTTCAATCAC AGnCAAATGT	60
	GCGGTTGACG TTCAATGACT ACCTGCAATT CATCGGTCAG CTCACACCCT TTACCTGnCT	120
35	AAAGTACCAG TAGACAATGT AGGTATTGGA CTTGCATGAG CATTTTTATh CAGTAATGGG	180
	CTTTAGATAT TTTATTAATA CCGGCCAATC ATGCTATTCA AACCGCCAAT AGCTTTATTA	240
	GCAACATTTT TACCTAAATC AGCCGCAGCT CTTCCCATGT CTTTACCAAT ATCTCTAATC	3,00
40 ´	CAATCATATG TTTTTGCATA GCCATTTTCT AAAACCATTA AATACTGATT TAGCGTTAGA	360
	CCATGCCGAA CTTGAAATTG CATCAAAACG ATCGTGGGCT	400
45	(2) INFORMATION FOR SEQ ID NO: 4425:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4425:

	AGATGATAAA AGCAACAGGT GGTTTTGCGA AAAGTGAAGT ATGGCGTCAA ATGATGTCAG	120
_	ATATATTTGA CACAGAGTTA GTGGTTCCTG AAAGTTATGA AAGTTCATGC TTAGGTGCCT	180
<i>5</i>	GCGTGCTCGG ACTTAAAGCT GTAGGTGACA TTGAAGATTT TTCAATCGTT TCATCGATGG	240
	TCGGTGCCAC AAACAATCAT ACGCCGATTG AAGAAAATGC ACTGTTACCA AGAnTCGAAT	300
10	CCATTHTTAT CATTAAGCGT CTTANCAGAG ATATGACAAT	340
	(2) INFORMATION FOR SEQ ID NO: 4426:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4426:	
	CTGAAGATGA TAAAGATGCA GATGGTGGCG AGTTGCACGT AACAATTACG GATCATGATG	60
	ATTICACACT TGATAACGGA TACTICGANG AATTATCATC AGACAGCGAT TCAGACTCAG	120
25	ATAGTGACTC AGACAGCGAC TCAGACTCAG ACAGCGACTC AGACTCAGAC AGTGATTCAG	180
	ATTCAGACAG CGACTCAGAT TCAGATAGCG ACTCAGATTC GGACAGCGAT TCAGACTCAG	240
30	ATAGCGACTC AGATTCAGAT AGCGATTCAG ACTCAGACAG CGACTCAGAT TC	292
	(2) INFORMATION FOR SEQ ID NO: 4427:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4427:	
	AACAGTGCTC TACCTCCAAT AATCATCACT TGAGGCTAGC CCTAAAGCTA TTTCGGAGAG	60
45	AACCAGCTAT TTCCAGGTTC GATTGGAATT TCTCCGCTAC CCTCAGTTCA TCCGCTCACT	120
	TTTCAACGTA ATCGGTTCGG TCCTCCATTC AGTGTTACCT GAACTTCAAC CTGACCAGGG	180
	TAGATCACCT GGTTTCGGGT CTACGACAAA TACTAAACGG CCCTATTCAG ACTCGGCTTT	240
50	CGCTACGGTT CCCACATTTA CTGGCTAAAC CTTGCATCAA AATCGGTAAC TCGnCGGGTC	300
	ATTCTAn	307
	AND THEORY THE GROUP TO NO. ALOS	

5	(A) LENGTH: 354 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4428:	
10	GACCATACAT CGTCATCGTT TGCACCGTCA AATACTGGTG ATGCAACGTG AATACCAAGA	60
•	TTTTTAGCAG CCATACCTAA GTGTAGCTCT AATACTTGTC CGATGTTCAT ACGAGATGGT	120
	ACACCAAGAG GATTTAACAT GGATATCGAT CGGGACGTCC ATCTGGTGAA GTGAAGGCAT	180
15	ATCTTCTTCA GGGAACAATC TTGAGGAAAT GGACACCTTT GTTGACCATG TCGGACCACA	240
	CATGCTTATG CACCAACATG GAATTTTACG TTTTTGGAAn GATGATTATT ACACGTNACT	3,00
	AATTGGTTTA CACCAGGTGG ANAATGTTAT CGTCGGCCTT GCTTCACGAT TGGA	354
20	(2) INFORMATION FOR SEQ ID NO: 4429:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4429:	
	GTGNACTATC NGCTTGTCTA TGATAATATT ATTCTTTGTA CTTGTTTAAA AGATATTAGA	60
	CTAAAACTAA AAACAGCAGT AAGATGATTT ATGATTAAAA CTATCTTACT GCTGTTCACT	120
35	TTTTATAATA CTTCTGAATG TCTCACTTAT ACTTCTAGTC ACAGATTTAA ATAATCAAAA	180
	GTGCACATTA TTAAAATATC AATTTCACAC TCAATGCGGC TCATCGCATT CATTTCTTGT	- 240
	CTAGCAACGT TCTACTCTAG CGGAACGTAA GTAGCTACCA TCTCGCTAAG GAACTTTCTT	300
40	GACCTGGTGA CAACCGCTGC GNCTNTCTCT CTTCGGCTCT CGCTTACTCC ATTTAGCTCC	360
	ACTAAACTCG TGCGGCCCTT CCCGTTCGGC AGATCCAACG	400
45	(2) INFORMATION FOR SEQ ID NO: 4430:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		,

2961

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4430:

ACCATTCACA CCTTGACAGC CACATAACAT AACTAAGTTT AAGATAGGGG GATAAATCGT	120
ATCTGAGTTA AACCAATGGT TAATACCCGC ACCCATGATA ATCATTGAAC GCCCTTCAGT	180
ATCGATAGCG TTTTGCGCAA ATTCTTTCGC TACTTGAATG ACAACACTTT GTTTTACGCC	240
TGAAATGGCT TCTTGCCAAG CAGGTGTATA TTTTGATTCT GCATCGTCGT AA	292
(2) INFORMATION FOR SEQ ID NO: 4431:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4431:	,
TGAGCCGnAC ATCGAGGTGC CAAACCTCCC CGTTCGATGT GAACTCTTGG GGGAGATAAG	60
CCTGTTATCC CCGGGGTAGC TTTTATCCGT TGAGCGATGG CCCTTCCATG CGGAACCACC	120
GGATCACTAA GTCCGTCTTT CGACCCTGCT CGACTTGTAG GTCTCGCATC AAGCTCCCTT	180
ATGCCTTTAC ACTCTATGAA TGATTTCCAA CCATTCTGAG GGAACTTTGA GCGCCTCCGT	240
TACCTTTTAG GAGGCGACCG CCCAGTCAAA CTGCCCGCCT GACA	284
(2) INFORMATION FOR SEQ ID NO: 4432:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4432:	
TATCATTGTG GTACGATAAG GCATATGTTG TACCTATGNA TGGTGGAAGA GCCTTCAGTT	60
GTCGCTGCAG CTAGTTATGG TGCAAAGCTA GTGAATCAGA CTGGCGGATT TAAAACGGTA	120
TCTTCTGAAC GTATTATGAT AGGTCAAATC GTCTTTGATG GCGTTGACGn TACTGGAAAA	180
TTATCAGCAG ACATTAAAGC TTTAGAAAAG CAAATTCATA AAATTGCGGn TGAGGCATAT	240
CCTTCTATTA AGCGCGTGTG GTGGTTACCA CGTATAGCGA TTGATACATT CCTGGCCACC	300
AGTTCTATCT TT	312
(2) INFORMATION FOR SEQ ID NO: 4433:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4433:	
	CGGTACTCGT TAAGGCTGAG CTGTGATGGG GAGAAGACAT TGAGTCTTCG AGTCGTTGAT	60
10	TTCACACTGC CGAGAAAAGC CTCTAGATAG AAAATAGGTG CCCGTACCGC AAACCGACAC	120
	AGGTAGTCAA GATGAGAATT CTAAGGTGAG CGAGCGAACT CTCGTTAAnG AACTCGGCAA	180
	AATGACCCCG TAACTTCGGG ANAAAGGGTG CTCTTTAAGG TTAACGCCCA GAAGAGCCGC	240
15	AGTGAATAAG CCCAAGCGAC TGTTTTATCC AAAACACAGG TCTCTGCT	288
	(2) INFORMATION FOR SEQ ID NO: 4434:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(a) 10102001: 111001	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4434:	
	GGACCGAACC GACTTACGTT GAAAAGTGAG CGGATGAACT GAGGGTAGCG GAGAAATTCC	60
30	AATCGAACCT GGAGATAGCT GGTTCTCTCn nAAATAGCTT TAGGGCTAGC CTCAAGTGAT	120
	GATTATTGGA GGTAGAGCAC TGTTTGGACG AGGGGCCCCT CTCGGGTTAC CAATTTCAGA	180
•	CAAACTCCGA ATGCCAATTA AATTTAACTT GGGAATTCAG AACATGGGTG ATDAAGTCCG	240
<i>35</i>	TGTTTCGAAA GGAAACAGCC CAGACCACCA GCCAAGTCCC AAAATATATG TTTAATGGGA	300
	AAAGGTGTGG CCTTTGCCCA GGACAACCAA GAAGTT	336
	(2) INFORMATION FOR SEQ ID NO: 4435:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4435:	•
50	ATTGACGCCG CATTITTACG GAATGGGAAT AAAGCGACAC AAACCGTCAC GTCnGTGTTG	60
	GTGTCATGAC AAGGTAATGC GAGTGATCTG ATGTATGGCT TATCATGGCA ATCTGTTATG	.120
	GNCTGACTGA TCGGACGATG TATCATTCGC CAATTCGTTT ACTTGTCGTT ATTCAGGCAC	180

	AATCATTGGC TGCGTTTTAA TGAGCGTAAT GAGGAAGGGG CGTTTAAAAA GTTGGATTTA	300
	ACGA	304
5	(2) INFORMATION FOR SEQ ID NO: 4436:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 305 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4436:	
	AATATACTCC GGTAAATAAC CGAAGAGTTT TGAATCATTG TTAAAAATGG AATTANAGTT	60
	CTAGTATCTG TTGGGTTTTG AAATAGGTCA TAGGATAAAA CAAATNGAGA ATTTGTCGCT	120
20	ATTTGTAAAT TGTATCCTGG CTTAAGTTGG CCATTTTTCA TATGGTCTTC CTTCATTCTC	180
	ATAAAAGTTG CATCATGGAT CAGTTTTAGA AAAGCTATTT CTATCTTTAA GAATCGATTT	240
*	TTGTTCTTCA TATTTATTTT TTCTTTCGGA ATAATCATCA AATTTATTTT TGGAACTTCT	300
25	TAATC	305
	(2) INFORMATION FOR SEQ ID NO: 4437:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	ż
:		
35 ,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4437:	
	ATCGTTTAAA TCAGTTAGTA AAAAGTCTGT GAGTAAGGGT GTATGGAAAG TGGTTAAATA	60
40	TTATAGAAAA CATCAAAGGA TGTTAAGAAA TACAATTTAT TACCCAGCAT TTAATAATGG	120
	TGCTATAGAA GGAATTAATA ATAAGATAAA ATTAATCAAG TGAATTTCTT TTGGTTACAG	180
*	AAATTTCAAC AACTTTAAAG CACGTATAAT GATGATITTC AGCTTGTACA AGGGGGANAA	240
45	AAGGANGNCA ACCAAGCCCA ATAATGGACT GGCCGCCTAA TATTAAAAAC TCTAAAGGTT	300
	GTATTTTAAA ATAGTTCTTT AAATTATATA CCCACCACAT TTGGTGGAGA CCCGTTAAC	359
	(2) INFORMATION FOR SEQ ID NO: 4438:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid	
ź.	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4438:	•
	ACTTACAGTT ATTTTAACTT GGNCAGAATC CATCATCCAT AAGTTCGAAA TGTTGTAAAA	60
5	CATAAACCTT GNAAACGGCA ACATTTTTGG GTCCTTCTCC ATCATTTTAT TTAAAAGCGC	120
·	ATTATGATCA ATATCATGCC CAATTAACTT TCCAGCAATT TCCATAGTAT GTTCTGAGGT	180
`. 10	ATTGTTAAAA AGGAATCGCC CAGTATCACC GACGATACCA AGATATAAAA CGCTCGCGAT	240
	ATCTTTATTA ACAATTGCTT CATCATTAAA ATGTGAGATT AAATCG	286
	(2) INFORMATION FOR SEQ ID NO: 4439:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4439:	
	TCGCTTGACT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAUCTCT ACTAAACTCG	60
?5	TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTCT	120
	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA	180
30	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTG	240
,,	GCTACCATCG ACGCTAAGAA CCTLTCTTGA CTTGTGACAA aTCGCTTGCT TCTTTCCTCn	300
•	TCTTCGGTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT TCTCGTTTCG	360
35	TCAGATTCAA CAGTTTTCAT TCGCCAAGCC ATTT	394
	(2) INFORMATION FOR SEQ ID NO: 4440:	-
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 295 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4440:	
	TAATAGGTTC GAGGTGGAAG CATGGTGACA TTGGCAGCTG ACGAATACTA ATCGATCGAA	60
	GACTTAATCA AAATAAATGT TTTGCGACAA TGCAACTTTT ACTTACTATC TAGTTTTGAA	120
50	TGTATAAATT ACATTCATAT GTCTGGTGAC TATAGCAAGG AGGTCACACC TGTTCCCATG	180
	IGINIUMII WANIFATA GICIGAIGAC ININGGAMAG MAGICAGAC IGIICCOMIG	

	IMMARCOTTO CCAGGLAMA MATGGATGCO ATGACCGCAT TOMGACCGCA GCTTTI	233
	(2) INFORMATION FOR SEQ ID NO: 4441:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs	2
٠.	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(b) Toronogi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4441:	
15	TTTCATAAAA AGATTTCAAA CGCGTTCATC AANCCTCGTC GCAGGTCTTT CGAACACTAG	60
	CGATTATTTC tTATGAATTC AAGCTTATTT AAAACTCTTT ATTCACTCGG TTTTGCTTGG	120
	TAAAATCTAT ATTTTACTTA CTTATCTAGT TTTCAATGTA CAATTTCTTT TTAGTCAAGC	180
20	GCTCGCATAC TGCTTTATTT TCATAAGCAA TATCACTTTA ACCAAAAAAT ATTTGAATGT	240
	TAAATAAACA TTCAAAACTG AATACAATAT GTCACGTTAT TCCGCATCTT CTGAAGAAGA	300
51	TGTTCCGAAT ATATCCTTAG AAAGGAGGTG ATCCnGCCGn ACCTT	345
25	(2) INFORMATION FOR SEQ ID NO: 4442:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4442:	
	AATCATTGTC AAAACTACGT TCTGGTAAAC AAGGACAACC CGTTTGAACC ATTGGCCCAC	60
	ACCATTTGAT AGGCAGNCAT GTGCGCAATG GACATCCACA TAGTTGCGTA ATGTTTCATA	120
40	CGTCATTGCT CAAATCATTC ATGACTAGCG CAACATGATT ACCTTGTCGT GnGCACCTTC	180
	ATTAAAGNAA CTTATGATAG ATTTATTTCC CGGGACATTA AGCATTCGCA TCGTTAACAT	240
	GCGTATTGCA CCCAATTTAG AAGTTCCTCC GTGCCGTTTG GTATATCACA AATTTGTAGT	300
45	GTATCTTGGA TGC	313
	(2) INFORMATION FOR SEQ ID NO: 4443:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4443:	
	AGCATGGTGT TTCTCAGATT GTCGGATGTA TAAATGTGTA TGTTATGTTT TAATTTTTCC	60
5	CAGTCTTTAA AAATAGATTG TTTATTTTTA GAATTATTTT TGAATAATTG AATTGCTTTG	120
	TAGCCAAAAT ATGACGTTCG ATTATCATTC AAACGCATAT AAAGCGTATC THCTGCCTCA	180
	TTGTCAGTGA GATGAAATAA TGTGCTCGGG GTCTAGTGAC TGTGGATAAT TTCACTTCAA	240
10	CTGAAACCCC ATTCCCTTTG AGCTGCCCAT ATATCTCTTT GGACAATATC GGTCCCTCTA	300
	ATACGGnCCG TAGnCCATTC CATTTCAATT CTTTTC	336
15 ·	(2) INFORMATION FOR SEQ ID NO: 4444:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4444:	
25	CAGACTGGGA TATTTATAAA ACGTTGGCAA AAGCATTTTC AGAAATGGCA AAAGACTATT	60
	TACCTGGAAC GTTTAAAGAT GTTGTGACAA CTCCACTTAG TCATGATACA AAGCAAGAAA	120
30	TTTCAACACC ATACGGCGTA GTGAAAGATT GGTCGAAGGG TGAAATTGAA GCGGTACCTG	180
50	GACGTACAAT GCCTAACTTT GCAATTGTAG AACGCGACTA CACTAAAATT TACGACAAAT	240
	ATGTCACGCT TGGGCCTGTA CTTGAAAAAA GGGGAAATTT GGAGCACCTG GGGGTAAGTT	300
35	TCCGTGTCCA GTTGAACCAT TATGGAGGAN TTNAAAAAGT ATGTTAAGGG ACCTGGGAGT	360
	TGAATACCCA ATGGATmGAT TCCCGTGAAG AGCCGAATCC	400
	(2) INFORMATION FOR SEQ ID NO: 4445:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 339 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45		
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4445:	
	TACGCCCACG ACGGATAGGG ACCGAACTGT CTCACGACGT TCTGAACCCA GCTCGCGTAC	60
50	CGCTTGTAAT GGGCGAACAG ChATCGCCTT GGGACCGACT ACAGCCCCAG GATGCGATGA	120
	GCCGACATCG AGGTGCCAAA CCTCCCCGTC GATGTGAACT CTTGGGGGAG ATAAGCCTGT	180

	CACTAAGTUU GIGUTTICGA UUUIGAUTAU GGACITGTHA GGTCTGCGGC ATTCAAGCIT	300
	CCCTTGATGG CCTTTGACAC TGCTTATGGA ATGNATTTG	339
5	(2) INFORMATION FOR SEQ ID NO: 4446:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4446:	
15	CAATTTTAAG TGTTGAAAAT GTCACTTTTA AACTTTCTAG TTTTATCTTT AATAAACATG	60
	CCATnCGTAA TAAGTGGCGT TTTATTAAAA TCATCTATAA TAGCCATATA GTTTTGCTCA	120
20	CTACCATAAC CTGCATCAGC TACAATATAC TCCGGTAAAT AACCGAAGGA TnTTTGGAAT	180
	CATTGTTAAA AATGGAATTG AAAGTTCTAG TATCTGTTGG GTTTTGAAAT AGGTCATAGG	240
	ATAAAACAGG GTGAGAATTT GTCGCTATTT GTAAATTGTA TCCTGGCTTA AGTTGGCCAT	300
25 .	TTTTnCATAG GTCTTCCT	318
,	(2) INFORMATION FOR SEQ ID NO: 4447:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4447:	
•	TTTTGAAATT CTCTATGTTG GGGCCCGGAC TATAATTGAA AAATGCTTGT TACAAGTGCA	60
40	TTTTATTTCA GTCAACTACT AACAATATAA CATTGTGGAG CCCAGANCTT TGATTAATGT	120
	ATATGAAAAT CAAAGTAATG CTTATGTATG ATTATTTCAA ATATTTTACA TACATGAACT	180
	TTTCCAATGT ACGATACTAT TATTATAAAG CGCTCGCTAA GATTTTACGA TGATTAGAGG	240
45	GTAAAAATG AACGATCAAT GGTnTAACCA TTTAATTGG	279
`	(2) INFORMATION FOR SEQ ID NO: 4448:	,
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4448:	:
	GACACCGGCA TTCTCACTTT CTAAGCGCTC CACATGTCCT TACGATCATG CTTCAACGCC	60
5	CTTAGAACGC TCTCCTACCA TTGTCCAAAG GACAATCCAC AGCTTCGGTA ATATGTTTAG	120
	CCCCGGTACA TTTTCGGCGC AGTGTCACTC GACTAGTGAG CTATTACGCA CTCTTTAAAT	180
	GATGGCTGCT TCTAAGCCAA CATCCTAGTT GTCTGGGGCA ACGnCACATC CTTTTCCACT	240
10	TAACATATAT TTTGGGACCT TTAGCTGGTG GTCTnGGGCT GTTTTCTGnA TTGAACACGG	300
	GA	302
15	(2) INFORMATION FOR SEQ ID NO: 4449:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 359 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4449:	
25	CGTTGGTATA TAGAGGGCAA CCGTCACCTG ATAAAATGTG GACACAGTTT TTACAAGAGG	60
	TTAAGGAAAT GAGTTTGGAG GCATACGAGC ATCAAGAATA CCCATTCGAA TGTTTAGTAA	120
30	ATGACTTAGA TCAATCACAT GATGCCTCAC GGAATCCATT ATTTGATGTC ATGTTAGTAC	180
<i></i>	TACAAAACAA TGANACGAAA TCATGCTCAT TTTGGGCATA GTAAATTTAA CACACATTCA	240
	ACCCCAAATC AGTGACGGGC GGAAATTTGG ATTTNTCCTT TTCCATCATT GGAAGAAGGA	300
<i>35</i>	TCGCGGATGA CCTAATAnCA ATCCAATTAT CGGGGTATAA ATACCGGATT TTATAACCA	359
	(2) INFORMATION FOR SEQ ID NO: 4450:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4450:	
	GATGACAAAA TTTGCTTGAA AACCGAAATG GATGGTCATC ATTGACTGNA TCAAGGTACA	60
4	TCATTCTTTG GTGCTTATGC ATTTAGACAT TATACAAAAA CAATACTTTT ATAGGGCAAC	120
50	CTTATGGGGT TCTATCGGCT ATACATTACC TGCAACATTA GGTTCACAAT TAGCAGACAA	180
	AGATCGTCGn TAACTTATTA TTAATTGGTG ATGGCTCATT GCCAACTAAC TGTTCAAGCT	240

	GCTATACGGT AGAACGACTT ATTCCC	` 32€
	(2) INFORMATION FOR SEQ ID NO: 4451:	•
5 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4451:	•
	GAAAACATCA AAGGATGTTA AGAAATACAA TTTATTACCC AGCATTTAAT AATGGTGCTA	60
15	TAGAAGGAAT TAATAATAAG ATAAAATTAA TCAAGTGAAT TTCTTTTGGT TACAGAAATT	120
	TCAACAACTT TAAAGCACGT ATAATGATGA TTTTCAGCTT GTACAAAGGA GANAAAAAGA	180
20	AGACAACCAA GCCCAATAAT GGACTGGCCG CCTAATAATA AAAACTCTAA AAGTTGTATT	240
	TTAAAAATAG GTCTTTAAAT TATATACCCC CCCCATTTGG GTGGAGAACC GGTAAACCAT	300
	GCCTAGGTGC CTAACCTCCn ATAATGGNAC CCCTCCTTAC CATTTGGGCC ATGGGGCCAA	360
25	TAAAGCGGGG GGCAATTGGG G	381
	(2) INFORMATION FOR SEQ ID NO: 4452:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
· <i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4452:	
	TTAATAACTT AATCTATGTT TCCATCCTAC AGGAAACGCG TTATTAATCT TGTGAGTGTT	60
40	CTTTCGAACA CTAGCGATTA TTTCTTATGA ATTCAAGCTT ATTTAAAACT CTTTATTCAC	120
	TCGGTTTTGC TTGGTAAAAT CTATATTTTA CTTACTTATC TAGTTTTCAA TGTACAATTT	180
	CTTTTTAGTC AAGCGCTCGC ATAAGCAATA TCACTTTAAC CAAAAAATAT TTGAATGTTA	240
45	AATAAACATT CAAAACTGAA TACAATATGT CACATn	276
	(2) INFORMATION FOR SEQ ID NO: 4453:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4453:	
	GGCGAAACCG CGTAGCGTTT TTTAAGTCTG ATGTGAAAGC CCACGGTCAA CCGGGAGGGT	60
: 5		
J	CATTGGAAAC TGGAAAACTT GAGTGCAGAA GAGGAAAGTG GAATTCCATG TGTAGCGGTG	120
	AAATGCGCAG AGATATGGAG GAACACCAGT GAGCGAAGCG ACTTTCTGGT CTGTAACTGA	180
10	CGCTGATGTG CGAAACGTGG GGGATCAAAC AGGATTAGAT ACCCTGGTGA GTCCACGCCG	240
,,,	TAAACGATGA nTGCTAAATG TTAGGGGGTT TCCGCCCCTT AGTGGCTGCC AGCTANACGC	300
	ATTGAAGCAC TGCCGCCTGG GGAGTGACGA CCGCAAnTTG A	341
15	(2) INFORMATION FOR SEQ ID NO: 4454:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4454:	
25	AChCTCCCCA AAGTCATATC GTCGTTAGTA ACGTCCTTCA TCGGCTTCTA GTGnCCAAGG	60
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA CCATTTTTAT AAGTCAAACG	120
30	CTCACATACG GCTTCGTTTT CATTATTTTA AATGCTCATT TACATAAGTA AACTCTGCTT	180
30	TAAAATAATT TAACTCATTG TCTGCTAAAC GTTTTCTTTT ATAAAAAGAT TTAAACGCGT	240
	TATTAATCTT GTGAGTGTTC TTTCGAACAC TAGCGATTAT G	281
3 <i>5</i>	(2) INFORMATION FOR SEQ ID NO: 4455:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4455:	
45		
	ATGICITCAC TTATACITCI AGICACAGAI TTAAATAAIC AAAAGIGCAC AITATTAAAA	60
•	TATCAATTTC ACACTCAATG CGGCTCATCG CATTCATTTC TTGTCTAGCA ACGTTCTACT	120
50	CTAGCGGAAC GTAAGTTAGC TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC	180
	GCTTGCnTCT TTCCTCTCCT TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG	240
	CGCTCTTTC TCGTTTCGTC AGATTCAAAC GTTTTCnGT	279

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 275 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4456:	
10		
	ATTITGACGI TITAGGCATA AAAAAAAGAG ACCITGCGGI CICAATGCGG CICATCGCAT	61
	CCATTTTTTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT	12
15	AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT	180
	ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TnTCGTCAGA TTCAAACGTT	24
	nTCACTTCGC CAAGCCATTT TTCTTGTGTT TACTT	279
20	(2) INFORMATION FOR SEQ ID NO: 4457:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4457:	
30	ATCCGATTCA CAAAGCACAT CATCATATAC AAGTCAGTCA ACAAGCCAAA GTGAATCCAC	60
-	ATCGACATCA ACGTCACTAA GCGATTCAAC AAGTATATCT AAAAGTACGA GTCAATCAGG	120
<i>35</i>	TTCGGTAAGC ACATCAGCGT CATTAAGTGG TTCAGAGAGT GAATCTGATT CACAAAGTAT	180
	CTCAACAAGT GCAAGTGAGT CAACATCAGA AAGTGCGTCA ACATCACTCA GTGACTCAAC	240
	AAGTACAAGT AACTCAGGAT CAGCAAGTAC GTCAACATCG CTCAGTAACT CAGCAAGCGC	300
40 ·	ANTGGAATCC GATTTGTCGT CAACATCTTT AAGTGGATTC AACATCTGCG TCNATGCCAA	360
	AGNINGTGAAT CCGATTCACA AAGCACATCA GCATCCTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 4458:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. '
50		•

2972

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4458:

	AGTCGCTGTC TGAATCTGAA TCACTGTCTG AATCCGAATC GCTATCTGAT TCTGAGTCGC	120
	TATCTGAACC TGAGTCGCTG TCTGAGCCTG AGTCACTGTC TGAATCCGAA TCCGGATCCG	180
5	GGTCTGGGGn TGGTTCCGGT TCTGGGTCTG GGACTTGGTT CTGGATCTGG CGTTGGTTCT	240
	GGGTCTGGGG TCTGGACTGG TTCTGGGGTC AAACGGCGGC CCTGGAGTGG GGTCTTTCGG	300
	AATNAACGGC GGAATCACCA TCAAGCAACT TNCAACAACC ATAACGAAAA A	351
10	(2) INFORMATION FOR SEQ ID NO: 4459:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 4459:	
20	,,,,,,,,	60
	ATCCTGCAGT TGATCAGTAT GGTGATATTA ATTTAGTTAA TACGAACGCG TCATCTACAA	
25	GTGAAATCAT TTACGATTTA ATCTCACATT TTAATGATGA AGCAATTGTT AATAAAGATA	120
	TCGCGAGCGT TTTATATCTT GGTATCGTCG GTGATACTGG GCGATTCCTT TTTAACAATA	180
	CCTCAGAACA TACTATGGAA ATTGCTGGAA AGTTAATTGG GCATGATATT GATCATAATG	240
30	CGCTTTTAAA TAAAATGATG GAGAAGGNCC C	271
	(2) INFORMATION FOR SEQ ID NO: 4460:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 283 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4460:	
	ACTGTGGATT AATATTATGC CTGGCAACGT TCTACTCTAG CGGAACGTAA GTTCGACTAC	60
45	CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG AACAGGTGTG ACCTCCTTGC	120
45	TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAGATAGT AAGTAAAAGT	180
	GATTITGCTT CGCADACAT TTATTITGAT TAAGTCTTCG ATCGATTAGT ATTCGTCAGC	240
50	GCCACATGTC ACCATGCTTC CACCTCGAAC CTATNAACCT CAG	283
	(2) INFORMATION FOR SEQ ID NO: 4461:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4461:	
	CTTCTACAAG TCCTGAATAT ACTTATGAAT CTCTTCTTTC GTGTATGCAA ACTGACGTTG	60
10	TAATTTAAAT AACGTCTCAT CTTTCCATTG CGAATCTTGA TATTGTATAT TTTCAAAATC	120
•	AAAGTCAACT TTATGGTTAT CAATCCACGC TTTATATGGT AATTCTCCAG CAATCGCACC	180
	TTTTAAATCA TTATTTTCAA TGACTTTATT CTGTTAAAAT CAACAANCAT AACTTTCCNG	240
5	GATTCAATTG ACCTTTAAAA GCAACATTAC TTCC	274
	(2) INFORMATION FOR SEQ ID NO: 4462:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4462:	
	GGCTGCTAAA AATCTTGGTA TTCACGTTGC ATCACCAGTA TTTGACGGTG CAAACGATGA	60
	CGATGTATGG TCAACAATTG AAGAAGCTGG TATGGCTCGT GATGGTAAAA CTGTACTTTA	120
.0	TGATGGACGT ACAGGTGAAC CATTCGATAA CCGTATTTCA GTAGGTGTAA TGTACATGTT	180
	GAAACTTGCG CACATGGTTG ATGATAAATT ACATGCGCGT TCAACAGGAC CATATTCACT	240
15	TGnTACACAA CAACCACTTG GCGGTnAAGC G	271
	(2) INFORMATION FOR SEQ ID NO: 4463:	
o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4463:	
	GCGGCTCATC GCATTCATTT CTTGTCTAGC AACGTTCTAC TCTAGCGGAA CGTAATTAGC	60
ō	TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTCT	120
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	180
	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTANTTTGAC	240

	(2) INFORMATION FOR SEQ ID NO: 4464:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4464:	
	TACCGAATCG AAGCCCCAGT AAACGGCGGC CGTAACTATA ACGGTCCTAA GGTAGCGAAA	60
15	TTCCTTGTCG GGTAAGTTCC GACCCGCACG AAAGGCGTAA CGATTTGGGC ACTGTCTCAA	120
	CGAGAGACTC GGTGAAATCA TAGTACCTGT GAAGATGCAG GTTACCCGCG GACAGGACGG	180
	GAAAGACCCC GTGGGAGCTT TTACTGGTTA GCCTGGATAT TGGAAATTCG GGCACACTTG	240
20	GTTACAGGAT AGGTAAGGAG CCTTTTGGAA ACGTTGAGCG CTACTTTANG TTGGGAGGCG	300
	CTGGTnGGGA TACTTACCCT AACTGTGTTT GGCTTTTCTn AACCGGCACC ACTTATCCTG	360
	G	361
25	(2) INFORMATION FOR SEQ ID NO: 4465:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4465:	
	CTGTATGTAC ACCACCAATC GGTTTAGGTT TAGCAACGTT TGTTCAAAAG TATAAATTCA	60
	ATCATTCCGA AAGAGAAATG GGTAAGGCTT CCTTCACTAT GGGACTATTT GGTATTACTG	120
40	AAGGTGCTAT TCCTTTCGCA GCCCAAGATC CATTGCGCAT TATACCTGCA AACATCATTG	180
	GTGCAATGAT TGCAȚCAGTC ATTGCAGCCA TTGGTGGTGT CGGCGATAGA GTCGCACATG	240
45	GRGGTCCCAA TCGTGGCTGT ATTAGGTGGG TTTTTGTTTT TTTTTTTTT TT	292
45	(2) INFORMATION FOR SEQ ID NO: 4466:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

GCAAACAAAA CAGTATTAGT AGATTATGAA AAATATGGTA AGTTTTATAA CTTATCTATT	. 60
AAAGGTACAA TTGACCAAAT CGATAAAACA AATAATACGT ATCGTCAGAC AATTTATGTC	120
AATCCAAGTG GAGATAACGT TATTGCGCCG GTTTTAACAG GTAATTTAAA ACCAAATACG	~ 180
GATAGTAATG CATTAANAGA TCAGCAAAAT ACAAGTATTA AAGTATATAA AAGTAGATAA	240
TGCCnCTGAT TTATCTGAAA GTTACTTTGT GGAATCCCGG AAACCTTGAG GGTGGCCCCT	300
AATAnTGG	308
(2) INFORMATION FOR SEQ ID NO: 4467:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4467:	
AAGCAGGCGC TCTCCCAGCT GAGCTAAGCC CCCATAATAA TTACAGTATA TCGGGAAGAC	60
AGGATTCGAA CCTGnGACCC CTTGGTCCCA AACCAAGTGC TCTACCAAGC TGAGCTACTT	120
CCCGTATAAT TAANGCGCCC GATAGGAGTC GAACCCATAA CCTCTTGATC CGTAGTCAAA	180
CGCTCTATCC AATTGAGCTA CGGGCGCATA TGTTTTTATT GAAAATAGTG CCGAGGACCG	240
GAATCGAACC GGTACGTGAT CACTCACCGC A	271
(2) INFORMATION FOR SEQ ID NO: 4468:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4468:	
TGTGTTAGGT ATTACATCAT CACATTTATC TGCGTCAAAG TCCAGCTGTC GATAAAGTTG	60
TAAACTGTAA AAACGCAATT TCTGAATTAG AAAATGATAA ACGTAAAGCA GTAAGTGCTG	120
AAGARTATAA AAAAGCTGAC GACATTCAAA ATGAAATCAA ATCATTACAA GATAAATTAG	180
AAAATAGTAA TGGTGAACAT ACTGCTGTTG CTACAGTTCA TGATATTTCA GATACTATTC	240
AACGATTAAC TGGTATTCCA GTTTCTCAAA THGATGATAA CGHTATTGAA CGTTTAAAAA	300
ATATTT	306

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4469:	
10	GGTTTATTAA CAGCATTCTT ATCAGCATTT GTAACTGTTA TTGTTTATAA CTTCTGTGTG	60
	AAGCGCAATA TTACAATTAA AATGCCGAAA GAAGTACCGC CGAATATTTC ACAAGTATTT	120
	AAGGACTTAA TTCCATTTTC AGCGGTAATC ATCATTCTTT ATGCATTAGA TTTAGTCATT	180
15	CGCAACAGCT TTAAATCAAA TGTAGCGGAA GGTATTTTAA AATTATTCGA ACCATTATTT	240
	ACAGCAGCAG ATGGATGGGT TGGTGGTCAC CATTTAACnT TGGGNGCnTT TGCATTAATC	300
20	CTGGGTTTGT AGGGTAATCC ATGGGTCCG	329
	(2) INFORMATION FOR SEQ ID NO: 4470:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4470:	
	AACTGGGTGA TAAGGTCCTG TTCGAAAGGA AACAGCCCAG ACCACCAGCT AAGGTCCCAA	60
<i>35</i>	AATATATGTT AAGTGGAAAA GGATGTGGCG TTGCCCAGAC AACTAGGATG TTGGCTTAGA	120
•	AGCAGCCATC ATTTAAAGAG TGCGTAATAG CTCACTAGTC GAGTGACACT GCGCCGAAAA	180
	TGTACCGGGG CTAAACATAT TACCGAAGCT GTGGATTGTC CTTGGACAAT GGTAGGAGAG	240
40	CTTCTAAGGA CTTGAAGCTG ATCGTAAGAC TGTGGAGCGN TAGAATGAGA TGCCGTGTGA	300
	TAGHAAAGAC GGTGAGATCC CTCCACCGTT GACTAAGTTC CAGAGGAAGC TCTCCGTCGG	360
	GTTATCCGGT CCTAAGnGAG GCCGACAGCT AGGCATGGnT	400
45	(2) INFORMATION FOR SEQ ID NO: 4471:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

.

·	
TCATTTTTAG AAATATTATC TTTTCCACAA ATCATTTGAT ATAAAGTGCG ATCATTTGCC	60
GCGAGTGCTG CCATTGACAC TAGCTGTTGC GTATCATTTT TGGCTAGCAC TTCGGGATAC	.120
TITCTTAGCT GAACAGTTAG ATGACCTAAT TGATCTTTGA AAATATCATT ATCTTGACCC	180
ATATATGACC ACCAAGCTGT TTCATCACAA ACCATGACAT ACTTAGCTAG TGCTTCATCT	240
TTTTCTATAA GCTGACGTAA TAATTGTCTG CTTGTCCTCC GTTTTnCATG TACCGCGAGG	300
CGTAAnCTTA AAGGGCCCAA GGnCG	325
(2) INFORMATION FOR SEQ ID NO: 4472:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4472:	
CCCGTCTTTC GCTACTCACA CCGGCATTCT CACTTCTAAG CGCTCCACAT GTCCTTACGA	60
TCATGCTTCA ACGCCCTTAG AACGCTCTCC TACCATTGTC CAAAGGACAA TCCACAGCTT	120
CGGTAATATG TTTAGCCCGG TACATTTTCG GGGGCAGTGT CACTCGACTA GTGAGCTATT	180
ACGCACTCTT TAAATGATGG GCTGCTTCTA AGnCAACATC CTAGTTGGTC TGGGGCAACG	240
CCACATCCTT TTTCCACTTT AACADATATT TTGGGA	276
(2) INFORMATION FOR SEQ ID NO: 4473:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 333 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4473:	
AATTTHCCAA AAAATTCAAA TGGCTCATTT ACCAAAAGGT AAACCTCCGC CTTTAAHTTT	60
CTTAATGCAT KGTCTAACAA CCGCTTTCTT TAAAAGAATA GATTGTCAAG CGCTCGCATA	120
AGCAATATCA CTTTAACCAA AAAATATTTG AATGTTAAAT AAACATTCAA AACTGAATAC	180
AATATGTCAC GTTATTCCGC ATCTTCTGAA GAAGATGTTC CGAATATATC CTTAGAAAGG	240
AGGTGATCCA GCCGCACCTT CCGATACGGC TACCTEGTTA CGACTTCACC CCAATACATT	300
TGTCCCACCT TCGACGGGCT AGCTCCGAAA AGG	333
•	•

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4474:	
10	TATAAAATAG CAACGTTATT CCAATTATCT TAATGGTTAT CTTATCCTCA ACTAAATTGG	60
	AGGAATCACT ATGACAATTA ATAAAGTAAC CGTTCTTGGC GCAGGCACAA TGGGCGCTCA	120
	ACTGGCAGCA CTTTTTGTGA ATGCTGGACT TAAAGTAANA CTATTAGATA TTGTAGTGGA	180
15	CAAAAACGAT CCMAATCTCA TTGCGAAAAA ATCTTACGGT TAAATTACAG GTAAGAAACG	240
	GCCGCTACTA TTCGnCTTAA ATCTAGCGGT CATTTACCAT ATGGTATTTT GATGTGCTTG	300
20	GTAAATGTGT GCTGTTTGAT ATCGA	325
	(2) INFORMATION FOR SEQ ID NO: 4475:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4475:	
	TAACTGCGGC AACATTTGCT TGTTTTGGTT ATGGTTGGCA CATTGATGTC GGCATTCATA	60
<i>35</i>	CAATACATCT AGTATTATCT GGTATTTTTG ATCGTTATCC AAAGTTAAAT AATGATTATT	120
	GGACATTGGG GTGAGTTTAT CCCATTCTTC TTAGAAACGT ATGGATGAAG CTTATTCGCT	180
	GACATTINAC CACCCTGTAA GCTATACTTT AAAAATAATT TTTAATCACA CCGAGTGGCA	240
40	TGTTAACGAG CCACAGTTTG ATTTAGTCAA GAAGNAGAGG TATTGTAGAN TCTTATGCGC	300
	TGATATCC	308
•	(2) INFORMATION FOR SEQ ID NO: 4476:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	

2979

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4476:

	CCTACCTATC CTGTACAAGC TGTGCCGAAT TMCAATATCA GGCTACAGTA AAGCTCCACG	120
_	GGGTCTTTCC GTTCCTGTCG CGGGTAACCT GCATCTTCAC AGGTACTATG ATTTCACCGA	180
5	GTCTCTCGTT GAGACAGTGC CCAAATCGTT ACGCCTTTCG TGCGGGTCGG AACTTACACG	240
	ACAAGGAATT TCGCTACCTT TAGGACCGTT ATAGTTACGG	280
10	(2) INFORMATION FOR SEQ ID NO: 4477:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4477:	
20	GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTCT TCGGCTCTCG	60
	CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC	120
25	GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC GTTTTAGACA	180
	TAAAAAAAGA GACCTCACGG nCTCAACTTG CCTGGCAACG TTCTACTCTA GCGGAACGTA	240
	ATTGGGCTAC CATCGnCGCT AAAGACCTTT CTTGACTTG	.279
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 4478:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 272 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4478:	٠
40	GAGGATCCCG GAATGTTGAA CCCATCACTG ATTCTGGTTC ATAATTATCC ATCATCCATA	60
	ACGTTAAATC TAAAGCGTGT GTACCGATAT CGATTAATGG TCCTCCACCT TGAGCTTCTT	120
45	CGTCTAGAAA GACACCCCAT GTTGGNACTG CTCGACGACG AATGGCATGT GCCTTTCCGA	180
\	AGTAAATGTC TCCTAAGTCG CCACGTTGCG CTGCTTGATG TAAAAATTGA CTATCTGCTC	240
•	GGANACGATT TTGATAACCT ATTGTTAATT TT	272
50	(2) INFORMATION FOR SEQ ID NO: 4479:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 265 base pairs(B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double	

	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4479:	
	GAAATTGGGA ATCCAATTTT nCTTTGTTGG GGCCCATCCC CAACTTGCAC ATTATTGTAA	60
5	GCTGACTTTT CGTCnCTTAC TGTGTTGGGG CCCTCACCCC AACTCGCATT GCCTGGTAGA	120
	ATTTCTTTC GAAATTCTCT GTGTTGGGGC CCCTGACTAG AATTGAAAAA AGCTTGTTAC	180
	AAGCGCATTT TCGTTCAGTC AACTACTGCC AATATAACTT CGTAGAGCAT AGAATATTGA	240
10	TTTATGTCCC AGCCTGAGTT AATTT	265
	(2) INFORMATION FOR SEQ ID NO: 4480:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4480:	
	ACATAGAAAT GCCACTTTTA CAAACAAATG AATATTCGTC TTTTTACATC ATTACGCATA	60
25	ATAAAAGAAG CTAAGCAACA TGTAAACCGT TGTCACTTAA CTTCTTGTTT TTCCGATGAC	120
	AGCTTCTATT TAGAGAATGT CATGATTATT TTATATTCAC TTCAATGTTA TCAATATTAG	180
30	TGCCATCTAT GACGTCTGCC ATACGATGCT CTGGCAGTTT TTTGGTGGTA ATTCAAACGT	240
	ATATTCCCAC CGTTTTCATT TAATAACGTT GTCChGGACC CATGTACCGT AAGATATGTT	300
	TTCATAGTGG TTCCAATTAA ACCANTCTTC AGGAACCTCN TAG	343
3 5	(2) INFORMATION FOR SEQ ID NO: 4481:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4481:	
45 ·	ACTGCGGCAA TAGCAGCAGC ACCACAAACG GCCTGTGTCC GGACACCTAG GTAATAATGC	60
	GCATGTTTTT GTCACCATGC CAACAGTTTG TTGACAAAGA GCATCATTAC AATACTGGAA	120
50	AATAACGACA CCTACATCGA TGGCTAATAG TTTACTACCT TGACCGATAA TATCGAATAT	180
-		245

	(2) INFORMATION FOR SEQ ID NO: 4482:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4482:	
	GAGGCATCCC CGGGCCTTCC TTCCCAACAG TCGCTTCAAA GTTTGGTGGT AAACCTGnTA	60
15	CATCAAATTA TCGGTGCTAC TGTmAGGTAC GTGTAATCTT CGCTATTTTA TTAGCCGTAT	120
	CACATCAAGT GGCTTCCCTA CTGGAACCAA TTTGCTATTC GCCTTATTAT CAGGTGCAGG	180
•	ATGGGGATTC GGACAAATCA TTACATTTAA AGCGTTCGAA TTAGTCGGCT CATCTCGTGG	240
20	CCATGCCAGT CACAACAGCA TTCCAATTAT TAGGCGCATC TTTATGGGG	289
	(2) INFORMATION FOR SEQ ID NO: 4483:	1
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4483:	
-	AATCAAAAGT GCACATTATT AAAATATCAA TTTCACACTC AATGCGGCTC ATCGCATTCA	60
<i>35</i>	TTTCTTGTCT AGCAACGTTC TACTCTAGCG GAACGTAAGT TAGCTACCAT CCTCGCTAAG	120
•	AACCTTTCTT GACTTGTGAC AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT	180
	CATTIAGCTC TACTAAACTC GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTnC	240
40	ACTTCGCCAA GnCATTTTC TTTG	264
	(2) INFORMATION FOR SEQ ID NO: 4484:	,
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4484:	
	CTGTACCACC TATAATCGTT TTAATCGATT GGGGGACGCA TAGGATAGGC GANGTGGCGA	60

	TGAGCTGTGA TGGGGAGAAG ACATTGTGTC TTCGAGTCGT TGATTTCACA CTGCCGAGAA	180
	NAAGCCTCTA GATAGAAAAA GGTGCCCGTA CCGCAAACCG ACACAGGTAG TCAAGATGAG	240
.5	AATTCTAAGG TGAGCGAGCG A	261
	(2) INFORMATION FOR SEQ ID NO: 4485:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4485:	
	ATGCAGCTAT TATTTTTGAC AGATTCCATA TCGTTCAACA TTTAAATAGA GAACTTAATA	60
20	AGTATCGTGT ACAAGTTATG AATGAATACC GTAATAAAAA AGGACCTGAT TATACAATTT	120
	TTAAGAATAA CTGGAAAGTC CTATTGATGG ATACTAGTAA AACCATATTT AGTAAATACA	180
25	GATGGANTAA ATCTTTTAAG GCTTATAAAC GCTCATCTGA CATTGTAGAN GTCATGCTTT	240
	CAAAAGACGA TATACTACGA C	. 261
	(2) INFORMATION FOR SEQ ID NO: 4486:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4486:	
	AGCAACATGA TGCACTTCTC GTGTCTCACC AGATTTAGCG ACTAAACTTG TAGACATACG	60
40	TAAATCTGCT TTAATAAGTA ATTNATGCAC ATGACTTATT GCGAGTAACA TCGGCATTGC	120
. • •	AAAGCCATTG CTATCAACTA ATCCACTATC ATCTAACACT AGANTTTGAG CGCCTTGCTT	180
45	TACAGCATTC ACTGCTTCTC GGCCTAATGC TTCTAACGCA TCTTCCAAAT CCCCTTCATA	240
	TACCGTTGAT AAATAAGTTA	260
	(2) INFORMATION FOR SEQ ID NO: 4487:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4487:	
5	ATGAGGTGCA TAGGGATAAA ACAGNNAGCA GCAATTTGTC GCTATTTGTA AATTGTATCC	60
•	TGGCTTAAGT TGGCCATTTT TCATATGGTC TTCCTTCATT CTCATAAAAG TTGCATCATG	120
	ATCAGTTTTA GAAAAGCTAT TTCTATCTTT AAGAATCGAT TTTTGTTCTT CATATTTATT	180
10	TTTTCTTTCG GAATAATCAT CAAATTTATT TTTGAACTTC TTAATCTTAG TTCTTTTTTA	240
	CGGGTCTGTT TTCCAATTTG AGTACTATCC TCGTTCCCCA ATAGAATGAA TTTAAACCTT	300
	CCGATTTCCT TTAAnC	316
15	(2) INFORMATION FOR SEQ ID NO: 4488:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4488:	. :
	CACTTTTACT GCTAAAACGT CAATTGTTGA TGAGTCGTGT TTTATCTCAA GATGTGTTAC	60
	TCAAAAAGTT ATAGAAGAAG CTACTAAAGT TAAAACAGAG ATTGATACTG CCAGAAGATA	120
30	ACTGTATCTC TCCATCTACT GTAAGTCCGT ATTAGAACTA AAGCGGCTAA TTCATTACGA	180
	ATTAAACCCT TTAATTGTTT GCCAGACACA TCGCTATGGA TGAATTTAAA GCGTnAAAAT	240
	GTACTGGATC ATGAGTTCAT TTTTATAGNT ATGTACNCAT GTGTATAGTA TTTAGAAATA	300
35	GACTCAA	307
	(2) INFORMATION FOR SEQ ID NO: 4489:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4489:	
	TTGGCAAATG TCATATAACT AGTAACATGA TCATCGACAT CAAATTTAGT ATGATCAAAT	. 60
50	GTTCCCCAAT CATTAATTTG ATTCGGTTGT TTGCTCAATT GATTATATGT TTTTCCTAGC	120
	ACTTCATGCG GCACCATATC TTTACCTAGT AGCCCCACAA AGATAAGTCT AACAAGTGGC	180
	ACCATAATCG ATAAACTACC GCCACCTGCA CGCTTATGGT AAAACACCCA GCCAGCACTT	240

	TAGCAGTATG CCACHCCGGH GACGATATGG TAGCGACGTA ANAA	344
	(2) INFORMATION FOR SEQ ID NO: 4490:	
. 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4490:	
15	CCCAACCGGC ACATTGTTGT AAGCTGACTA TATGTCACTT CnTGTGTTGG GGCCCCTGTC	60
	TTCGACTGGC ACTGCTCCCT CAGGAGTCTC GCCATTAATA CTACGTATTA ACATGTAATT	120
	TTACTTTTAA ATACTTTAAA AAAATAAGAC ACTTTGGTCC AACTTAAGCC AGGGATACAA	180
20	TTTACAAATA GCGACAAATT CTCAATTTGT nTTATCCTAT GGACCTATTT CAAAACCCAA	240
	CAGGTACTNA GTAACTTTGA ATTCCATTTT TTAACAATGG ATTGCAAAAT GACCTTACGG	300
	TTCATTTGAC CGG	313
25	(2) INFORMATION FOR SEQ ID NO: 4491:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4491:	
	AGGTCTGACT CTAGAGGATC CCCGATGAGT TTAAAGAAAA ATATCAAACA CCTGAATTAT	60
	ATTTTAAAGC TTGGCAAGGT TTTTACCACG AGGTTCACAA TGAGCCAGAA CGTGATGAAG	120
40	TAATGCGTTA TATTCTGACT TTCTTAAATA ACAGCGTCAA TACAATGGGC TTTATTGTTG	180
	AAGATGACGA AATTGTAGAA ATTTAATATT CTAAAAAGGT TGGGACATAA ATCCCTAAAA	240
	AACAGCAGTA AGATAATTTT CCATTAGAAA ATATCTTACT GCTGTGCnCn A	291
45	(2) INFORMATION FOR SEQ ID NO: 4492:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCCGTCTCAG CCTTGGTCTT CGACTGGCAC TGCTCCCTCA GGAGTCTCGC CATTAATACT	6
	ACGTATTAAC ATGTAATTTT ACTTTGAAAT ACTTAAAAAA ATAAAACACT TTGCCCAACT	120
5	TACACTACCA ATAGAAACTG CTGTTAGAAT TCCTCAAAAT GATATTTCGC GATATGTTAA	180
	TGAAATTGTT AAAAAGATAG CTGATAGCGA GATTCGATGG AATTCAGACA TCATCGTGGG	240
10	CGCAACATCC TATCATCTAA AAATGATGTT AAAAATCACC TGCATATTGC ATATACTGCA	300
	ATCTGGAATT TTCTGGGCCG TGAGAATGAG AAAAATnGAC nTCATGAACA GTGATTGCGA	360
	ATGGATGTGG GTTAAGCTnC AAGATTCAAA CACCTTGCnT	400
15	(2) INFORMATION FOR SEQ ID NO: 4493:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4493:	
	TGATCCAGAG ATTTCCGAAT GGGGAAACCC AGCATGAGTT ATGTCATGTT ATCGATATGT	60
	GAATACATAG CATATCAGAA GGCACACCCG GTAGAACTGA AACATCTTAG TACCCGGAGG	120
30	AAGAGAAAGA AAATTCGnTT CCCTTAGTAG CGGCGAGCGA AACGGGAAGA GCCCAAACCA	180
	ACAAGCTTGC TTGTTGGGGT TGTAGGACAC TCTATACGGA GTTACAAAGG AnGACATTAG	240
	ACGAATCATC TGGAAAGGTG AATCA	265
35	(2) INFORMATION FOR SEQ ID NO: 4494:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4494:	
45	CATTACTAAA AAAGATAATC AAGGTATGAT TTCACGCGAT GTTTCAGAAT ACATGATTAC	60
	TAAGGAAGAG ATTTCCTTGA AAGAGCTTGA TTTTAAATTG AGAAAACAAC TTATTGAAAA	120
50	ACATAATCTT TACGGTAACA TGGGTTCAGG AACAATCGTT ATTAAAATGA AAAACGGTGG	180
	GAAATATACG TTTGAATTAC ACAAAAAACT GCAnGAGCAT CGTATGGGCA GACGTCATAG	240
	ATGGGCCCTA TATTGATACC ATTGGAGGTG AATHTAAATA ACCATGCACT CTC	293

. 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4495:	
	ACTTACAAAG TTCTGTGAAC CAAGTACCAT CAACTGCTGG TATGACGCAA CAAAGTATTG	6
	ATAACTATAA TGCGAAGAAG CGTGAAGCAG AAACTGAAAT AACTGCAGCT CAACGTGTTA	12
15	TTGACAATGG CGATGCAACT GCACAACAAA TTTCAGATGA AAAACATCGT GTGCGATAAC	18
	GCATTTAACA GCATTMAAAC CAAGCGAAAC ATGAMTTTAA CTGCAGATTA CACATGCCTT	24
•	AGGAGCAAGC AGTGCA	25
20	(2) INFORMATION FOR SEQ ID NO: 4496:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4496:	
	GTCATCAGAA ACCCTTGTCA CACAAGGCTT GTATTTTTTA TACTTATTTT TTAAATTAAA	60
	TTCATCATTA TCTAATTTAA AACAATATAC TAAACGTTTC ATAATTATCG CCTGTACAAT	120
<i>35</i> .	ACGCACAAAA ACATGTCTTG AAACGCCTTT CATTACTCTA ANATACCCAA TATACTTTTT	180
	ATATCGTTCG GATTCTGAGT ATTTCAGACG ATTTTCTGCA TADAAATAAA CGTGTTTCAA	240
	GGCAATATAT TGCA	254
40	(2) INFORMATION FOR SEQ ID NO: 4497:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CROMINGE PROGRESSION CRO IN NO. 1405	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4497:	
	AATCGGCTGT CTGATTCTGA ATCGCTATCT GAGTCCGAAT CGnTATCTGA ATCCGAGTCG	60
	CTATCCGAGT CTGAGTCGCT ATCTGAATCC GAGTCACTGT CGGAGTCGGA ATCACTATCT	120

	GAGTCACTGT CGGAATCTGA ATCGCTATCT GAATCCGAAG TCACTGGTCG GGAATCTGAG	240
	TCACTGTnGG AATCTGAATC GCTATCTGA	269
5	(2) INFORMATION FOR SEQ ID NO: 4498:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4498:	
	CACCCCGGCA CTATAAAAAT GGAGCAGAAG ACGGGATTCG AACCCGCGAC CCCAACCTTG	60
	GCAAGGTTGT ATTCTACCGC TGAACTACTT CTGCATATGC GGGTGAAGGG AGTCGAACCC	120
20	CCACGCCGTA AGCTTAGNAT ACCTCAAGTC TAGTGCGTCT GCCAATTCCG CCACACCCGC	180
	AAATGGTGAG CCATAGAGGA TTCGAACCTC TGACCCTCTG ATTAAAAGTC AGATGCTCTA	240
	CCAACTGAGC TAAATGGCTC TTnCAGGTGC CGG	273
25	(2) INFORMATION FOR SEQ ID NO: 4499:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
35	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4499:	
	GTAGTAAAAC GCATTTAGTG ATTGAAACAG GCAAGATAGA CGCGGGATAT CACGGCAATT	. 60
	TAGGGATTAA TATCAAGAAT GACGCTATTG CATCGAATGG TTATATCACA CCAGGTGTTT	120
40	TTGAATATTA AAAGGAGAAT CGATTTGAAG TGCnnCATAA GACAATACGG ACTTATCAAA	180
•	TCAACGAAGG AGACAAACTA GCTCAATTGG TTATCGTGCC TATATGGACA CCTGAACTAA	240
45	AGCAAGTGGA GGAATTCGAA GTTGTTCANA CGTGGAGAAA AGGCTCGGAG AGCGGGTGAA	300
70	AGCATCTTAG TCGA	314
	(2) INFORMATION FOR SEQ ID NO: 4500:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·

	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4500:	
	ATTGTAAGGC TATCATGTCA AAGATTATAA CAATAAATCT GGTTGAGATT TGGTGGCGGG	60
5	GCGATGGAAG CTATCTATTT GACCATCCAT TTGGCAAAGG TTTGGGAGTT ACACAGGTGG	120
	ACTTAACTTT AATGGCGGTC GTCACTATGG TATCGACTTT GGTATGCCTA CAGGAACGAA	180
	CCATTTATGC TGTTAAAAGG CGGTATAGCT GATAAAGTAT GGnCTGATTA CGGTGGCGGT	240
10	AATTCTATAC AAATTAGGAC CGGTGCTAAC GAATGGANCT GGTATATGCA TTTATCTANG	300
	CATT	304
15	(2) INFORMATION FOR SEQ ID NO: 4501:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4501:	
25	TTCCTTCATT CTCATAAAAG TTGCATCATG ATCAGATCAG	60
	TCTTTAAGAA TCGATTTTTG TTCTTCATAT TTATTTTTTC TTTCGGnATA ATCATCAAAT	120
30	TTCTTTTTGA ACTTCTTAAT CTCAGTTATT TTTTTACGGG TCTGTTTTCT AATTTGAGCA	180
	CAATCTTCGT TCTCAATAAG AATGATTTAA ATCTNCGATT TCTTTATCTA AATGGACTAC	240
	CAATTAAATC TAT	253
35	(2) INFORMATION FOR SEQ ID NO: 4502:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4502:	
45 .	AGTTCGGTCC CTATCCGTCG TGGGCGTAGG AAATTTTnGA GGAGCTGTCC TTAGTACGAG	60
	AGGACCGGGA TGGACATACC TCTGGTGTAC CAGTTGTCGT GCCAANGCAT AGCTGGGTAG	120
5 <i>0</i>	CTATGTGTGG ACGGGATAAG TGCTGAAGAT GCTTAAGCAT GAAGCCCCCC CAAGATGAGA	180
	TTTCCCAACT TCGGTTATAA GATCCCTCAA AGATGATGAG GTTAATAGGT TCGAGGTGGA	240
	AGCATGGTGA CATGTGG	257

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4503:	
10	ATACGTTTAA TACACAAAAA ACTGCAAAGC ATCGATGGCA GACGTCATAG ATGGCACTAA	. 60
	TATTGATAAC ATTGAAGTGA ATATANAATA ATCATGACAT TCTCTAAATA GAAGCTGTCA	120
15	TCGGAAAAAC AAGAAGTTAA GTGACAAGnT TTACATGTTG CTTAGCTTCT TTTATTATGC	180
	GTAATGATGT AAAAAGACGA ATATTCATTT GTTTGTAAAA GTGGCATTTC TATGTCTTAA	240
	AAGTGACGAA ACTTCAAATG TGCCAAGTGT	270
20	(2) INFORMATION FOR SEQ ID NO: 4504:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4504:	
	TACCTTGACC GAAGTTCTTA CCTACATCAC CTAAATTAAT GACATGTCCA CCAGTCATAT	. 60
	ACTCTAATCC ATGGTCGCCG ATACCTTCAA CGACAACATC TACACCACTA TTTCTAATAC	120
35	AGAATCTTTC TCCTGCACTA CCGTTAATAA ATGCCTTACC ACTTGTCGCA CCATAGAATG	180
•	AGACGTTACC AGCAATAATT TCATTTTGTC GTTCTTCAAA AGGTGCTTTG ACAATGACCG	240
	TACCACCnGn T	251
40	(2) INFORMATION FOR SEQ ID NO: 4505:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4505:	
	AGAAGTTAAG CTCCTTAGCG TCGATGGTAG TCGAACTTAC GTTCCCGCTA GAGTAGAACG	60
	TTGCCAGGCA AATGACAAAT CGGAGAATTA GCTCAGCTGG GAGAGCATCT GCCTTACAAG	120

	TAGCTCAATT GGTAGANCAC TGACTTGTAA TCAGTAGGTT GGGGGGTCAG TCCTCTGGCC	240
	GGCACCATCT TTTGnCCATA	260
5	(2) INFORMATION FOR SEQ ID NO: 4506:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4506:	
	TTCTTTAGTA GATACTAAGG CGTTATTAGA CGCATTAGAC AATGGTGTGA TTAAAGGTGC	60
	AGCACTTGAT ACGTATGAAT TTGAACGCAA ACTTTTCCCA AGTGATCAAA GGGGCAAAAC	120
20	ACTGAACGAT CCATTGTTAG AATCGTTGAT TGACAGGGAA GATGTCATAT TAACACCACA	180
	TATTGCGTTT TATACTGAAG CTGCAGTTAA AAATCTATTG TCGTGCATTA GGTGCAACAT	240
25	TAGGTGTATT GCAGCTTGGG GAACTTnGnT ACGGGTAAAT TTAAAATCGG CTGTGGGTAT	300
	TTTGGnTTTT GGG	 313
	(2) INFORMATION FOR SEQ ID NO: 4507:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4507:	
	GnCAATACGG CCAATTCCTA AGATTGCTAC TTCTGGGTGG ATTGATAACT GGAGTGAACC	60
40	ATTGTCCACC AGCTGNAACC GATATTACTG ATTGTGCATG TAGCACCTTT CATTTCATCG	120
	GCTGTTAATT TACCATCACG TGGCTTTAAC AGCTAATTCA TTAATTTCAT CTGAAATTTG	180
45	GGAAAATAGA CTTACGGATC AGCATGTTTA ACAACAGGTA CTAATAATCC TCTATCAGTG	240
	TCTGCTGCAA TT	252
•	(2) INFORMATION FOR SEQ ID NO: 4508:	
50 55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4508:	
	CATCGAACCA GATGTACTCG CACTTGTTGA GTCTGATGTT GAATCACTAA CACTATCAGA	60
5	TAATGACGTT GAATCACTCA TACTTGTTGA TGTACTTGTC GAAAGCGACA TACTTTGTGA	120
	ATCACTAGTA CTTGTACGCA TCGAAGTACT AGTTGAAGCT GATGTACTAC GAGAGTCACT	180
	TGTTGATGTT GATGTACTTG CTGATCCTGA TGCACTTGTA CTTCTTGATG TGCTTTGTGA	240
10	ATCGGATTTC GCTCGTGCnT GGTACTnG	268
	(2) INFORMATION FOR SEQ ID NO: 4509:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 296 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4509:	
,	CGAGAGTGCG TTAATTCGGT TACTGCTATC ACGTAAGGGG CGGAAACCCC CTAACACTTA	60
25	GCACTCATCG TTTACGGCGT rGACTACCAG GGTATCTAAT CCTGTTTGAT CCCCACGCTT	120
	TCGCACATCA GCGTCAGTTA CAGACCAGAA AGTCGCCTTC GCCACTGGTG TTCCTCCATA	180
30	TCTCTGCGCA TXTCACCGCT ACACATGGAA TTCCACTTTC CTCTGCTGGC ACTCAAGTTT	240
	TCCAGTGTCC AATGACCCTC CACGGTTGAG CCGTGGGCTT nCACATCACA CTTANA	296
	(2) INFORMATION FOR SEQ ID NO: 4510:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4510:	
	TTACTACTTA CTGAGTGACC TGTACCTGCT TTCGGAGTAA TTGTGATTGA TGAATTTGGT	60
45	TTTATAGTAT TGGCATTGAA CGTCACTTTA CCAGTTTGTG CATCTAACGT TACATAGTCA	120
	GGCTTATTCG CAATTGTCCA TTGnTTATTT TGACCACGAA CAACATTAAT TGTCTTACTA	180
50	TGTTGCTGCA CCATTACCCA CTTnTTCAGT GTAAGCAATA TCCATTGCTT GAGTTGGGAT	240
	TAATTAAATG GTCCTGA	257
	(2) INFORMATION FOR SEC ID NO. 4511	

5	(A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4511:	
10	AAAATCACAT CAGCCTGCAT TAACGACGTC GTTAATTTAT ATACATCTCC TGTAGTATCT	6
	AGATAATTCT TTCCAACGCT AAATTCTAAT TCAAGTTCTC GTAAATCCAT CAACTCTATT	120
	TGATGTCCCT CATTGATGAC TTCTAGTTCA TTTTTTAAAT CATCCATAGC AATTCTCGTT	180
15	TTAGAACCTA CTGTGGAACC TGACAATAAT ACAATATTCA NGANGACGCC CCTCCTATTT	240
	TGATAAATGC	250
20	(2) INFORMATION FOR SEQ ID NO: 4512:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4512:	
30	AGCTGGNTTC GAACCAACGA GTGACGGAGT NAAAGTCCGT TGCCTTACCG CTTGGCTATA	60
	GCCCAATATA TAGATGGTGG AGGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGATT	120
	TACAGTCCGC CGCGTTTAGC CACTTCGCTA CCCCTCCAGC TTATTCATAT AATTTAATAA	180
35	TCAAAATGGT GGAAGAATGA CGGGTTCGAA ACCGCCGACC CTCTGCTTGT AAGGCAGATG	240
	CTCTCCCCAG CTG	253
40	(2) INFORMATION FOR SEQ ID NO: 4513:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4513:	
.50	GRCGACCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA CGTTAACATG	60
	NAAGTTACGT TCTTTTATAA AAAGATTTAA ACGCGTTATT AATCTTGTGC AGTGTTCTTT	120
5 5	CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT AAAACTCTTT ATTCACTCGG	180

	GTGGAGACTA GC	252
	(2) INFORMATION FOR SEQ ID NO: 4514:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4514:	
15	GTCATTGAAT ATGGAAACTT TAGAATTACA AGGCGCTAAA TTACGATACC ACCAAGTCGG	60
	ACAAGGACCC GTGCTCATCT TTATTCCTGG TGCAAACGGT ACCGGAGACA TTTTTCTGCC	120
	TCTTGCAGAA CAGTTAAAAG ACCATTTTAC TGTTGTAGCC GTTGATCGTC GTGATTATGG	180
20	AGAAAGCGAG TTAACTGAAC CACTCCCTGA TTCCGCTTCA AACCCTGACA GTGATTATCG	240
	TGTC	244
•	(2) INFORMATION FOR SEQ ID NO: 4515:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4515:	
35	TATTAGGCAA ATCCGGTACT CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGTGTCT	60
	TCGAGTCGTT GATTTCACAC TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC	120
	CGCAAACCGA CACAGGTAGT CAAGATGAGA ATTCTAAGGT GAGCGAGCGA ACTCTCGTTA	180
40 .	AGGAACTÓGG CAAAATGACC CCGTAACTTC GGGAGAAGGG GTGCTCTTTA GGGTTAACGC	240
	CCA	243
	(2) INFORMATION FOR SEQ ID NO: 4516:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	() Grovewon prominerous and the volume	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4516:	

	GATTGTCCTT TGGACAATGG TAGGAGAGCG TTCTAAGGGC GTTGAAGCAT GATCGTAAGG	120
	ACATGTGGAG CGCTTAGAAG TGAGAATGCC GGTGTGAGTA GCGAAAGACG GGTGAGAATC	180
5	CCGTCCACCG ATTGACTAAG GTTTCCAGAG GAAGGCTCGT CCGCTCTGGG TTAGTCGGGT	240
	CCCTAAACCT GAGGCCGCAA nnGTAGG	267
	(2) INFORMATION FOR SEQ ID NO: 4517:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4517:	
20	TTGAATCTGA CGAAACGAGA AAAGAGCGCA ACGAGTTTAG TAGAGCTAAA TGAGTAAGCG	60
	AGAGCCGAAG AGAGGAAAGA AGCAAGCGAT TGTCACAAGT CAAGAAAGGT CTTTAGCGAC	120
	GATGGTAGCC AACTTACGTT CCGCTAGAGT AGAACGTTGC CAGGCAAAAA ATGGGATGCG	180
25	ATGAGCCGCA TTGGAGACCG CAGTCCTnTn TnTTTTTTTA TGGCCTTAAA ACGTCAAAAT	. 240
	TAAAAAGTTA AACACAAAGA AAATGGGCTT TGGCGAGTGG AAACGTTTTG AATCTGGACG	300
20	GAACGAGAAA GAGCGCACG	319
30	(2) INFORMATION FOR SEQ ID NO: 4518:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4518:	
	GGTATAATAG ATGACTATGT ACTATTTCCG GTACATCCTT GGCAATATCA GCATATTCTG	60
	CCGAACGTCT TTGCGAAAGA GATTAGTGAA AAGTTGGTTG TACTATTACC GTTAAAATTT	120
45	GGAGATTATC TGTCGTCTTC AAGTATGCGT TCATTAATTG ATATTGGCGC ACCGTATAAC	180
	CATGTCAANG TACCATTTGC AATGCAGTCA TTAGGCGCAT TAAGGCTAAC GNCTACGGTT	240
50	ACATGAAAAA CGGGGAACA	259
	(2) INFORMATION FOR SEQ ID NO: 4519:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4519:	
	ATAGGGTGTT GCTGAATAGG GCGTTTAGTA TTTGGTCGTA CCGnnAACCA GGTGATCTAC	6
10	CCTTGGTCAG GTTGAAGTTC AGGTAACACT GAATGGAGGA CCGAACCGAC TTACGTTGAA	120
	AAGTGAGCGG ATGAACTGAG GGTAGCGGAG AAATTCCAAT CGAACCTGGG AGATAGCTGG	180
	TTCTCTCCGA AATAGCTTTA GGGCTAGCCT CAAGTGATGA TTATTGGAGG TAGAGCACTG	240
15	TTTGGACGAG GGG	253
	(2) INFORMATION FOR SEQ ID NO: 4520:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		0
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4520:	
	AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT	60
30	TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTCACGGT	120
•	CTCAACTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA GTTGGChACC ATCGTCGCTA	180
	AAGACCTTTC TTGACTnGTG ACAATCGCTT GCTTCTGTCC TCTCCTTCGG CTCTCGCTTA	240
<i>35</i>	CTCAT	245
	(2) INFORMATION FOR SEQ ID NO: 4521:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4521:	
	GGGCCTAAGT GGACTCGAAC CACCGACCTC ACGCTTATCA GGCGTGCGCT CTAACCAGCT	60
50	GAGCTATAGG CCCATTAATT TGAATGAACA AACATTCAAA ACTGAATACA ATATGTCACG	120
	TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG	180
55	CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG ThCCCACCTT	240

	(2) INICIDENTIAL FOR DEG ID NO. 4322:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4522:	
	natagaacct gaaaccgtgt gcttacaagt agtcagagcc cgttaatggt tgatggcgtg	6
15	CCTTTTGTAG AATGAACCGG CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA	12
15	GCCGTAGCGA AACGATGTCT GAATAGGGCG TTTAGTATTT GGTCGTAGAC CGAAACCTGG	18
	TGATCTACCC TTGGTCAnGT TGAAGTTCAG GTAACACTGA ATGGAGGACC GAACCGACTT	24
20	ACGTTTGAA	24
	(2) INFORMATION FOR SEQ ID NO: 4523:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4523:	
	TCCCTATCCG TCGTGGGCGT AGGAAATTTG AGAGGAGCTG TCCTTAGTAC GAGAGGACCG	6
35	GGATGGACAT ACCTCTGGTG TACCAATTGT CGTGCCAAnG CATAGCTGGG TAGCTATGTG	12
	TGGACGGGAT AAGTGCTGAA GATCTMAAGC ATGAAGCCCC CCTCAAGATG AGATTTCCCA	18
	CTTCGGTTAT AAGATCCCTC AAAGATGATG AGGTTAATAG GTTCGAGGTG GAAGCATGGT	24
40	GACAGTGG	24
	(2) INFORMATION FOR SEQ ID NO: 4524:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4524:	
	AACGTTAAGA TCCCTATTAA ATTATCTTAG GAATCATCAT GGGCATTTAT GATGTCTTAA	60

	AAATTAGTAA TCTGAATCTG CTTCTAAACC TTGTCATAAT TTGAnCGGCT GTGGCTCGnA	180
	CCAATACGGG TCGGACCTGC TTHAACCATT TTATTGGAAA TCTTCTAAAT TACGGACGGC	.240
5	ACCCGGATGC TTTTACTTCT ATATCAGCAC CTACTGTATC TTTCATTAAT TTAACGGCTT	300
•	CTGCAGTCGG ACCGGCAACT GCAAAA	326
	(2) INFORMATION FOR SEQ ID NO: 4525:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4525:	
20	AAGAGCACCC TTCTCCGAGT TACGGGGTCA TTTGCCGGTT CCTTAACGAG AGTCGCTCGT	60
	CACCTTAGAT TCTCATCTTG ACTACCTTGT CGGTTTGCGG TANGGCACCT ATTTTCTATC	120
	TAGAGGTTTT CTCGGCATGT GAAATCAACG ACTCGAGACA CAATGTCTTC TCCCATCACA	180
25	GTCAGCCTTA ACGAGTACCG GATTTGCCTA ATACTCAGCC TACTGCTTAG nGGCATCCAT	240
	CGCAGTTnGC TATCCACTGG TCCCCCTCGA TTAAACGATT ATAGGTGGTA CAGATATCAA	300
	c	301
30	(2) INFORMATION FOR SEQ ID NO: 4526:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4526:	
	TGATATTATG AGCTGTGTTT TTAGCTTTAG AACCGAAGTC CCCTGCTTTT TTACCAAGAT	60
·	TTTCAGTAAC TTGTmCCATC CATTTTTCT TTTTCGTACC ACCATGGAAT TTTGGCAAAA	120
45	CACCCATCCG CTGTAACTTC AGAGTGTCAT TGGCATTTAT TACACTATCT CCAACTCCTA	180
	GTGGAACAAC CACATCTCGT CCTTGGGGTG CATGGAATGT nCCGTCAGCC CTGTGAATTA	240
	T	241
50	(2) INFORMATION FOR SEQ ID NO: 4527:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH 316 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4527:	
	CGATCACACT CTTCCGTCGT CATCGCCATT GGCTTTTCAC ACAATACATG GACACCATGG	60
10	TGTCAATGCT TCTATAGAAA GATCAGCATG GAATTTATTA GGTGTACAAA TGACCACCGC	120
	ATCAACAAGT TTAAACAGCT CGCTAGGTGT CTCAACTGCA TGAGGTATAT TGAAAGCGCT	180
	TCGCAACCAT nCAATCATCT GGCACTGTTA TTGAATATCT TGTGACTGGC AACTTAATGA	240
15	GNACTGTGTC TTTTGGAGTT TCCAGnCAAT GCCGGGAATT ATGGACGGGT CTTGGTGGCA	300
	ATACCACCCA ACACCT	316
20	(2) INFORMATION FOR SEQ ID NO: 4528:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4528:	
30	GTCCCAAGGG TTGGGCTGTT CGCCCATTAA AGCGGTACCG ACGACTGGGT TCAGAACGTC	60
	GTGAGACAGT TCGGTCCCTA TCCGTCGTGG GCGTAGAAAT TTGAGAGGAG CTGTCCTTAG	120
	TACGAGGAGG ANCGGGATGG ACATACCTCT GGTGNACCAG TTGTCGTGCC AACGGCATAG	180
35	CTGGGTAGCT ATGTGTGGAC GGGATAAGTG CTGAAAGCAT CTAAGCATGA AGCCCCCCTC	240
	AAGATGAGAT T	251
40	(2) INFORMATION FOR SEQ ID NO: 4529:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4529:	
50	AGTACGTGAC GTTCACTACT CTCACTATGG CCGTATGTGT CCAATTGAAA CACCTGAGGG	
50	ACCAAACATT GGATTGATTA ACTCATTATC AAGTTATGCA CGTGTAAATG AATTCGGCTT	60
	TATTGAAACA CCATATCGTA AAGTTGATTT AGGATACACA TGCTATCACT GATCAAATGA	120
5 5		180

	ATGGTCGTTC AGGTGATGAG TGTATGCGTT CGGGNACNAT CAGTATGCAA GAAAAGGTTT	300
	GTGACGCGAC AGTGTCNA	318
5	(2) INFORMATION FOR SEQ ID NO: 4530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4530:	
	TAGCTGTGTG ATAAATTGCA AGTGCGGCAC CACATAAGCC GAACATCATC GTAATAAAAC	60
	GGCCTGACAT ACAGCGTGAC ACACCTGAAT AATACTTCGT CACATCTGGA TCACCAAGTT	120
20	GAGCAAAGAN GATGTTCTNC GTACCTTGAA CTAAGTGCCC TTTGACTTCT AAAGTACCAC	180
	CAAGTGCCGT CTGCCAAAAC GGTAAGTAAA AAATATGGTG TAAACCGAGT GGACCTAACA	240
	(2) INFORMATION FOR SEQ ID NO: 4531:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double, (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4531:	
3 5	CGGCTCTTCT GGGACGTTAA CCCTAAAGTG CACCCCTTCT CCCGAATTAC GGGGTCATTT	60
	TGCCGAGTTC CTTAACGAGA TTCGACTCGn TCACCTTAGA ATTCTCATCT TGACTACCTG	120
	TGATCGGTTT GCGGTTAGGG GCACCTATTT TCTATCTAGA GGCTTTTCTC GGCAGTGTGA	180
40	AATCAACGAC TCGAAGACAC AATGTCTTCT CCCCATCACA GCmCAGCCTT AACGAGTACC	240
	GGATTTGCCT AATA	254
	(2) INFORMATION FOR SEQ ID NO: 4532:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 238 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4532:	

	TGAATAAACC GAATGTGGCT AAAGTCGTTA ACGCAAAATA TGACGTCATC TATAACGGAC	120
	ATACTTTTGC AACATCTTTA CCAGCGNAAT TTGTAGTAAA AGATGTGCAA CCAGCGANAC	180
5	CAACTGTGAC TGAAACAGCG GCAGGAGCGA TTACAATTGC ACCTGGAGCA AACCAAAC	238
	* (2) INFORMATION FOR SEQ ID NO: 4533:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4533:	·
	GGTCATTAAT AAAATATCTA AAGCCATTAC TGCATAAAAA TCTCATCAAG CCAATACCTA	60
20	CATTGTACTA CTGGnCACTT TAGACAGGnC AAGGGTGTAG CTACCGATAA TTCAGGAGCA	120
	TTAACGCAAC CGACATTTGA CTGTATTAAA TGATAGAGGT TCTGGAAAAC GCCCCAGGTG	180
	GTGGAGTTCA AGAAATAATT CACAGGGCTG ACGGAACATT CCTGCACCCC AAGGACGAGA	240
25	TGTGGTTGTT CCACTAGGAG TTGGAA	266
	(2) INFORMATION FOR SEQ ID NO: 4534:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4534:	
	TACTCAGAGG ATACCCCGAC GTAATGCATT CAATTCAATT	60
40	GAGCAGAAAG AAAATTATGG CACCAAACTT TAATATTTTT TTCAATGTCA TTCTTTTGAN	120
	GGGAGTGGGA CAGAAATGAT ATTTTCGCAA AATTTATTTC GTCGTCCCAC CCCAACTTGG	180
	CATTGTCTGT AGAAATTGGG AATCCAATTT CTCTTTGTnG GGGCCCATCC CCAACTTGCA	240
45	CATTATTGTA AGCTGACTTT TCGT	264
	(2) INFORMATION FOR SEQ ID NO: 4535:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4535:	
	GCGAATGGAT AACAGTTGAT ATTCCTGTAC CACCTGATAA ATCGTTTTAA TCGATGGGGG	60
5	GACGCATAGG NATAGGCGAC TGCCGATTGG ATTGCACTCT AAGCAGTAAG GCTGAGTATT	120
	AGGCAAATCC GGTACTCGTT AAGGCTGAGC TGTGATGGGG AGAAGACATT GTGTCTTCGA	180
	GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA AAATAGGTGC CCCGTACnGC	240
10	AAACCGACAC	250
	(2) INFORMATION FOR SEQ ID NO: 4536:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4536:	
	AATGACGGGT TCGAACCGCC GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT	60
25	AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA GCGGAAnTAA TTCGAACTAC	120
	CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG AACAGGTGTG ACCTCCTTGC	180
	TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAMATAGT AAGTA	235
30	(2) INFORMATION FOR SEQ ID NO: 4537:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4537:	
	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	60
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT	120
45	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAG CTAACCACTC	180
	CTCTTAACCT TCCAGCACCG GGCAGGCGTC AGCCCTATAC ATCACCTTAC GGTT	234
50	(2) INFORMATION FOR SEQ ID NO: 4538:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4538:	
5	ACCCTCTGCT TGTnAGGCAG ATGCTCTCCC AGCTGAGCTA ATTCTCCGAT TTAAAACTGC	60
	CTGGCAACGT TCTACTCTAG CGGAACGTAA GTNGACTACC ATCGACGCTA AGGAGCTTAA	120
	CTTCTGTGTT CGGCATGGGA ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGAA	180
10	TGTAATTTAT ACATTCAAAA CTAGATAGTA AGTAAAAGTG ATTTTGCTTC GCAAACCATT	240
	TA	242
15	(2) INFORMATION FOR SEQ ID NO: 4539:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4539:	·
25	TCATTAACAC CATCACCATA AATAAAACCT TCCATATCTG TTCCTGTGCC AATAAAGCCA	60
	TATTGCGTTT GGnCTGTCGT GCCAGTGCAA GATTTCCAAC GATAATTTCT AGGCGTCACT	120
	GCTGGCGAAC CATCTAATGG ATAATCATAA TCCATCGTGC GTCCAAGAAG TACTTGnTTT	180
30	ATTTAAAGTT TGTATTGTGG AATCCTGTGC ACATGTTCTC ACTCCTCTGT ACCT	234
•	(2) INFORMATION FOR SEQ ID NO: 4540:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4540:	
	ACACAAAGAA AAATGGCTTG GCGAAGTGAA AAChGTTGAA TCTGACGAAA CGAGAAAAGA	60
45	GCGCAACGAG TTTAGTAGAG CTAAATGAGT AAGCGAGACC GAAGAGAGGA AAGAAGCDAG	
	CGATTGTCAC AAGTCAAGAA AGGTTCTTAG CGAGGATGGT AGCTAACTTA CGTTCCGCTA	180
	GAGTAGAACG TTGCTAGACA AGAAATGAAT GCGATGAGCC GCATTGAGTG TGAAATTGAT	240
50	AT	240
	(2) INFORMATION FOR SEC ID NO. 4541	242

5	(A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4541:	
10		٠,
	GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA GTCAAACGCT CACATACGGC	61
	TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA CTCTGCTTTA AAATAATTTA	120
15	ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT AAACGCGTTA TTAATCTTGT	180
15	GNAGTGTTCT TTCGAACATA GGCGATTATN TCTTATGAAT TCAAGCTTAT TTAAAACTCT	240
•	(2) INFORMATION FOR SEQ ID NO: 4542:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4542:	
	AAGCTAGCAA TGATGTCAAG CAATGGCAAC ATGTGCTCAn TTAGCTAATA TGCAAGCACA	60
30	TGGTGAATAT GACGAGGTTG CAACTTCAAC GGCGAGGNTG ATGAATGCCT TACGTTTGCG	120
	TGAGACAGTA GCTATGGGCC GCGGTATTAC AGGTGGTAAT GGCATACTGA GCTGACGATT	180
	ATGATATTGT CACGTTTTCT TCTCTGTATG CAGAAGCGAT TTACACGTAC GAGGTACACA	240
3 5	TG	242
	(2) INFORMATION FOR SEQ ID NO: 4543:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4543:	
	TGGTGAGCCA TAGAGGATTC GAACCTCTGA CCCTCTGATT AAAAGTCAGA TGCTCTACCA	60
50	ACTGAGCTAA TGGCTCTTCC ATGGTGCCGG CCAGAGGACT TGAACCCCCA ACCTACTGAT	120
	TACAAGTCAG TTGCTCTACC AATTGAGCTA GGCCGGCAAT ATGTAAGATT AAATGGTGGA	180
<i>55</i>	GANTGACGGG TTCGAACCGC CGACCCTCTG CTTGTAAGGC AGATGCTCTn CCAGCTGAG	239

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4544:	
10	ATAGAGGATT CGAACCTCTG ACCCTCTGAT TAAAAGTCAG ATGCTCTACC AACTGAGCTA	6
	ATGGCTCTTC CATGGTGCCG GCCAGAGGAC TTGAACCCCC AACCTACTGA TTACAAGTCA	:12
15	GTTGCTCTAC CAATTGAGCT AGGCCGGCAA TATGTAAGAA TAAATGGTGG AGAATGACGG	18
	GTTCGAACCG DCGACCCTCT GCTTGTAAGG CAGATGCTCT DCCAGCTGAG CTAAATTCT	23
	(2) INFORMATION FOR SEQ ID NO: 4545:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4545:	
	AATTCATGCT TTCAAAAGAC GATATACTAC GACACTCCTA CGAACTTGTC CAAGGATTAC	60
30 .	GAAAAGACCT AAGGTTATGT AATTGGCCTA AATTTATTAA TCGTTTAAAT TCAGTTAGTA	120
	AAAAGTCTGT GAGTAAGGGT GTATGGAAAG TGGTTANATA TTATAGAAAA CATCAAAGGA	180
35	TGTTAAGAAA TACNATTTAT TACCCAGCAT TTAATAATGG TGCTATAGAA GGA	233
	(2) INFORMATION FOR SEQ ID NO: 4546:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4546:	`
	ACTITIGITGE CTTCCATCAA CTTGAGACTT CATAACGTTT TGCATCTTCG CCACCTTCAC	. 60
50	CACTATTACT CTTTCCACCT AATTGGTTCA TGGCTTGTGC TANTTTTTCA TGTGCTTCCG	120
,,,	CTGAAATCGA TCCATAACTC ATCGCCCCTG TATTAAAGCG TTTGACAATG TCACTTACCG	180
	GTTCAACTTG GnCGATGTCA ATCGGTGTAC ATGCTTTAAA TTCAAGTAAA TGTCTAATGT	240

	(2) INFORMATION FOR SEQ ID NO: 4547:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4547:	
	GAGGAAATTA CTGAAAACAA TCATCATATT TCTCATTCTG GTTTAGGAAC TGAAAATGGT	60
15	CACGGTAATT ATGGCGTGAT TGAAGAAATC GAAGAAAATA GCCACGTGGA TATTAAGAGT	120
	GAATTAGGTT ACGAAGGTGG CCAAAATAGC GGTAATCCAG TGCATTTGAG GAAGACACAG	180
	AAGAAGTTTA AACCGAAATA TGDAACCAAG GTGGGCATTA TCGTTGGTTA TCGATTTTCG	240
20	ATAGTGTACC TCAAATTTCA TGGGTCCAAA TTAATGGTTA ACCCATCCAT TCGANGNAGG	300
	(2) INFORMATION FOR SEQ ID NO: 4548:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4548:	
	TTGCTATAGT CACCAGACAT ATGAATGTAA ATTATACATT CAAAACTAGA TAGTAAGTCA	60
35	AAGTGATTTT GCTTCGCAAA CATTTATTTT GATTAAGTCT TCGATCGATT AGTATTCGTC	120
	AGCTCCACAT GTCACCATGC TTCCACCTCG AACCTATTAA CCTCATCATC TTTGAGGGGA	180
	TCTTGATAAA CCGNAAGTTG GGGAAATCTC ATCTTTACGG GGGGGCTTCA TGCTTAGGAT	240
40	GGCTTThCAG CACTTTATGC CCGGThCCAC ACATTAGGCT TACCCAGCCT ATGCCCGTTT	300
-	GGCACG	306
	(2) INFORMATION FOR SEQ ID NO: 4549:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs (B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4549:	

	CTTCTACTIT TGTACCATCA ATAAGATTTT GCTTTAAACA TTGACTATGA AACTGGATAA	120
	ATAAAGATTC AATTAACGCA TCAGTATTAG GATTCACTCT AATACGATTA ATAGTTTTAT	180
· 5	AAGAAGGTGn TTGATTTTGA GCTAACCACA TCATTCGAAT ACTGTCATGn AG	232
	(2) INFORMATION FOR SEQ ID NO: 4550:	-4
. 10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4550:	
	CTGGGTTCAG AACGTCGTAT GNAGTTCGGA TCCCTATCCG TCGTGGGCGT AGGAAATTTG	60
20	AGAGGAGCTG TCCTTAGTAC GAGAGGACCG GGATGGACAT ACCTCTGGTG TACCAGTTGT	120
	CGTGCCAAnG CATAAGCTGG GTAGCTATGT GTGGACGGGA TAAGTGCTGA AACATTCTTA	180
	AGCATGAAGC CCCCCTCAAG ATGAGATTTC CCAACTTCGG TTATAAGATC CCTCAAAGAT	240
25	GATGAAGTTA ATAAGTTC	258
	(2) INFORMATION FOR SEQ ID NO: 4551:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4551:	
	TTACAGGCAT GCGAGTTGGG GTGAGGGCCC ACACAGAAGC TGACGAAAAG TCATGACAAT	. 60
40	AATGTGCAAG TTGGGGATGG GCCCACAAAG AGAAATTGGA TTCCCAATTT TACAGACAAT	120
	GCAAGTTGGG TGGGACGACG AAATAAATTT GCGAAAATAT CATTTCTGTn CCCTCCCTCA	180
	AAAGATGACA TTGAAAAAAT ATTAAAGTTG GTGCCATATT TTCTTCTGCT CATGAATATA	240
45	CGTTAAAATT GATTGATCAT CGCGAATTGA TATTATTCTC ATTATAAAAA TACTTATTAC	300
	ACTTACCGTA TGATAGTTTG NTATATACTC TGATAAAGTC AAACCTAATA GCGTTTCTAG	360
٠	CTGTGnGTGT TTCATAATTA TATACATTAT CAGGCTTTAA	400
50	(2) INFORMATION FOR SEQ ID NO: 4552:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 312 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4552:	
	ATAGGAAACT GCCAATTGGA CGGTTGCCGC ATTCAAACCC AGCACGATTA CGGCGAATTG	60
10	CACGTGAAnC ATTTCTACAG CTTGATCTTG ACCTATGATT TTACTTCTTA AACGATTAGA	120
	AATATTTTT AAACGTTCAA TATCGTTATC ATCCATTTGG AGAAACTGGG AATACCATTG	180
	AATCGTTGnA ATAGTATCTG GAAATATCAT GGAACTGTAG CAACAGCAGT GTGTTGCACC	240
15	ATTMACTGAT TITGCTAATT TATCTTGGTG AATGGATTTG GATTTGCATT TTGGAATGTG	300
	CGTGCAGCTT TT	312
oʻo.	(2) INFORMATION FOR SEQ ID NO: 4553:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4553:	
30	AGCAGCGATC AAAAATAATC CGCAATACGC TGGCAAACTA CCAATACCAA ACCATAGAAC	60
	AACAAATGGT GCCCATGCTA TCGGAGATAT CGGCCTAATC AATTGAAATA GCGGTTCGAT	120
	AGCGTTGTAT AGCCAACGAT TCCTTCCAAG CAAGAAGCCC AATGGAATAG CAACCAACAA	180
35	TGCGACAACA AAGNCCGCTA CAAATCTCCA TGAACTAATT GCTAAATGTG GNGAATTTCT	240
	CCAGTAACAA TGGA	254
40	(2) INFORMATION FOR SEQ ID NO: 4554: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4554:	
50	GGTCTGAATC GCTATCTGAG TCTGAATCGC TATCTGAGTC TGAATCACTG TCTGAGTCCn	60
	AGTCACTGTC TGAATCTGAC TCACTATCTG ATTCTGAGTC GCTATCTGAT TCTGAGTCGC	120
	TGTCTGGAAT CTGAATCACT GTCTGGAATC CGAATCGCTA TCTGGATCTG AGTCGCTATC	180

	CTGGGGCTTG G	251
٠	(2) INFORMATION FOR SEQ ID NO: 4555:	
5 	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4555:	
15	TACACAAAGA GATAAATTAC TTATGCAAAG GCGGAGGAAT CACATGTCTA TTACTGAAAA	60
	ACAACGTCAG CAACAAGCTG AATTACATAA AAAATTATGG TCGATTGCGA ATGATTTAAG	120
	AGGGAACATG GATGCGAGTG AATTCCGTAA TTACATTTTA GGCTTGATTT CTATCGCTTC	180
20	CTATCTGAAA AAGCCCHACC AGAATATGCA GTGCCCTGTC AAGHGAAGAC ATCACGTTCC	240
	AGAAGCATGG C	251
	(2) INFORMATION FOR SEQ ID NO: 4556:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4556:	
35	AGCTACCCCG GGGATAACAG GCTTATCTCC CCCAAGAnTT CGCATCGACG GGGAGGTTTG	60
	GCACCTCGAT GTCGGCTCAT CGCATCCTGG GGCTGTAGTC GGTCCCAAGG GTTGGGCTGT	120
	TCGCCCATTA AAGCGGTACG GAGGCTGGGT TCCGAACGTC GTGAGnCCGT TCGGTCCCTA	180
40	TCCGTCGTGG GCGTAGGAAT TTGAGAGGAG CTGTCCTTAG TACGAGAGGA CCGGGTGGAC	240
	ATA	243
	(2) INFORMATION FOR SEQ ID NO: 4557:	-
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(vi) SECTION OF DESCRIPTION, SEC ID NO. 4557.	•

	TCATTATTTT AAATGCTCAT TTACATAAGT AAACTCTGCT TTAAAATAAT TTAACTCATT	120
	GTCTGCTAAA CGTTTTCTTT TATAAAAAGA TTTAAACGCG TTATTAATCT TGTGAGTGTT	180
5	CTTTCGAACA CTAGnCGATT ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTG	235
	(2) INFORMATION FOR SEQ ID NO: 4558:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4558:	
	CCGTTAAGCA CTAAATCCGC TTAATAACGG CTTTCTATCG CGCGCAACAT CTCGTTTGAC	60
20	TGCTTTTTCT TTCAAAGCTT GACGTTATCA TATTTTTTCT TACCTCGTGC ACACCAAGTA	120
	ATACTTTACA ATGTCCATGC TTCAAATAAA GCTTTAACGG ACAATCGAAT AACCAANCTC	180
	ACGTGTTTGA TCACCCAATT TAATGATTTC ACGCTTGTGC AATAATAATT TTCGAGACGA	240
25	GAGGATCGGA TTAAAACGAT CCCCTCCTCG TATGG	275
	(2) INFORMATION FOR SEQ ID NO: 4559:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4559:	
	TTATATGGAT GTATCGCCGA AGCAAGTTGT TTCAGCAGCG ACAMATGTAT TCCGATGACT	60
40	CAAACCGTGC ATTGATGGGT GCGAACATGC AACGTCAAGC AGTGCCTTTG GATGAATCCA	120
•	GAAGCACCAT TTGTTGGTAC AGGTATGGAA CACGTTGCAG CACGTGTATT CTGnGTGCGG	180
	CTATTACAGC TAAAGCACAG AGGTCGTGTT GAACATGTTG GAATCTAATG AAAT	234
45	(2) INFORMATION FOR SEQ ID NO: 4560:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	TTATTTTGAC GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG	60
	TTCTACTCTA GCGGAANTAA NTGGCTACCA TCGTCGCTAA AGACCTTTCT TGACTTGTGA	120
5	CAATCGCTTG CTTCTTTCCT CTCCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT	180
	CGTTGCGCTC TTTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA AG	232
10	(2) INFORMATION FOR SEQ ID NO: 4561:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4561:	
20	TCAAAGGACG CATACCATTA CGGGTCTGCT ACTTGTAAGC ACACGGTTTC AGGTTCTATT	60
	TCACTCCCCT TCCGGGGTGC TTTTnACCTT TCCCTCACGG TACTGGTTCA CTATCGGTCA	120
	CTAGAGAGTA TTTAGCCTTA GGAGATGGTC CTCCCAGATT CCGACGGAAT TTCACGTGCT	180
25	CCGTCGTACT CAGGATCCAn TCAAGAGAGA CAACATTTTC GACTACAGGA TTATTACCTT	240
	CTTTGATTCA TCTTGTC	257
30	(2) INFORMATION FOR SEQ ID NO: 4562:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(b) Toloboli Tilloui	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4562:	
40	TACCTAATAA GTTGTGAATT TGAACAGCGG CTGCTTTACA nTGGAACTGC TGATTCAGTT	60
	GCCACAATTA CCATACCAAT TTTCTTTTTG TCTTCGTCTG TNATAATGTC CTTAGCAGCG	120
	TTAGCTCCGA TTGAAACGAT GTCTTGGTTT ACAGGACTAA CAGCCATTTC AGTTTGACCA	180
45	ATTCCAATTA AAAATTTGTT TGGGTCTACT TGGCGTGGCT TCCTGCTGAA TTTAGCCATG	240
	(2) INFORMATION FOR SEQ ID NO: 4563:	,
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4563:	
	CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT CATCGGCTTC	60
5	TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC ACCATTTTTA	120
	TAAGTCAAAC GCTCACATAC GGCTTCGTTT TCATTATTTT ANATGCTCAT TTACATAAGT	180
10	ngactctgct ttaaaataat ttaactcatt gtctgctaaa cgttt	225
,,	(2) INFORMATION FOR SEQ ID NO: 4564:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4564:	
	TGTTAATTGG nGAATTTGGA TACTGGTTAT ATTCAGCTGC ACCGCAAGCA ACTTCTATTG	60
	ATGGCCTAAC TGCCTTTTTA CCTCAAGCAA TGGGTATGGT AATTGTTGCA GTCATTTATG	120
25	GCTTTATGAA TATGAAAGCA GAGGAATCCC ATTCCCGTAA TAAAATTACG GTGGTTACAA	180
	AATTATTTCA GGTTTCTTTC TTTTGCATTT GGGTGCTTTA ACCATATCTT nTT	233
30	(2) INFORMATION FOR SEQ ID NO: 4565:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4565:	
40	AGCTCAGATA GCGCTCAGAC TCAGACAGCG ACTCAGATTC AGATAGCGAT TCAGACTCAG	60
	ACAGCGACTC AGACTCAGAC AGCGACTCAG ACTCAGATAG CGACTCAGAT TCAGATAGCG	120
	ATTCAGACTC AGACAGCGAC TCAGATTCAG ATDGCGATTC GGADTCAGAC AGCGATTCAG	180
45	ATTCAGACAG CGACTCAGAC TCGGATAGCG ATTCAGATTC AGATA	225
•	(2) INFORMATION FOR SEQ ID NO: 4566:	
50 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4566:	
	CCAACTGGAG CTAATGGCTC TTCCATGGTG CCGGCCAGAG GACTTGAACC CCCAACCTAC	6(
5	TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCGG CAATATGTAA GAATAAATGG	120
	TGGAGANTGA CGGGTTCGAA CCGCCGANCC TCTGCTTGTG AAGGCAGATG CTCTCCCAGC	
	TGAGCTAATT CTCCGATTTA AAACTGGCCT GGGCAACGTT CTACTCTAGC GGGAACT	180
10		237
	(2) INFORMATION FOR SEQ ID NO: 4567:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
•		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4567:	
	GTTGGAGATA GTGTAATAAT GCCAATGAGC CACTCTGAAG TTACAGCGGA TGGGTGTTTT	60
	GCCAAAATTC CATGGTGGTA CGAAAAAGAA AAAATGGATG GAAACAAGTT ACTGAAAATC	120
25	\cdot	
	TTGGTAAAAA AGCAGGGGAC TTCGGTTCTA AAGCTAAAAC ACAGCTCATA ATATCAAAAA	180
	GGTGCAGAGG AAATGGTTGA nnGGCAGCGG ATAAATCAAG ATGGTGCACT TGGTTAGCGT	240
30	TAAATCGCGA TGTGTGGGTT ANTACACATC CGGGAACTAG TAATAAGTAT GTCAGTTTAA	300
	(2) INFORMATION FOR SEQ ID NO: 4568:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 250 base pairs (B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(m) CD077777 DD0777777	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4568:	
	ATCCCGTGGA GGTTCAAGTC CTCTCGGCCG CATCAAAATT CTTAATTTAA ATAAGCGGGT	60
	GTAGTTTAAT GGCAAAACCT CAGCCTTCCA AGCTGATGTT GTGGGTTCGA TTCCCATCAC	120
45	CCGCTCCATA GATAATTTTA ATGAACATTG AAAACTGAAT GACAATATGT CAACGTTAAT	180
	TCCAAAAACG TAACTATAAG TTACAAACAT TNATTTTAGT ATTTGATGGA GCCTNAATCC	240
	AAACATTCCA	250
50	(2) INFORMATION FOR SEQ ID NO: 4569:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4569:	• • •
	GATCCCCTAG CTTTACGTTC AACTTTATAT GGGTATAACT CGAATATAAT TTGGCGCTCT	6
10	ATGTCATGGG ACAACGAGTA GACATTTAAT AACGGATCAG GTTCTGGTGA CGGTATCGAT	120
	AAACCAGTTG TTCCTGAACA ACCTGGTGAG CCTGGTGAAA TTGAACCAAT TCCAGAGGnT	180
	TCAGATTCTG ACCCAGGTTC AGATTCTGGG CAGCGnTTCT AATTCAGATA GCGGT	235
15	(2) INFORMATION FOR SEQ ID NO: 4570:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4570:	
20	AATCTATTTC TTCTATTGTT AAATCGCTAT CTCCATCTTC TTTTATCTCT GGTATTATTT	60
	TTTCTTCAAC TAAGTCACGA TATAATGTTT TTGAATTTTC GTTCAATTTC GATTCGTGAT	120
30	TTTGAATACT TTTCTTCCAC ACAAATGTAT ACCTATTGGC ATTAGCnTCT ACTTTTGTAC	180
	CANCAATAAG ATTTTGCTTT AAACATTGAC TATGAAACTG GGA	223
	(2) INFORMATION FOR SEQ ID NO: 4571:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4571:	
	CATGATATTT TGAACCGCAT GGTTAAAGTT GCAAAGACGG TCTTGCTGTC ACTTATAGAT	60
45	GGATCCGCGC TGCATTAGCT AGTTCGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATAG	120
	CCGACCTTAG AGGGTGATCG GCCACACTGG NACTAAGACA CGGTCCAGAC TCCTACGGGA	180
50	GGCAGCAGTA GGGAATTTTC CGCAATGGGC GAAAGCTGTA CGGCGCAACG TCGTGTGNAG	240
-	TGCTGCAGGT TCTTCGGATC GTAAAAT	267
	(2) INFORMATION FOR SEQ ID NO: 4572:	

5	(A) LENGTH: 221 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4572:	
10	AATmCAACTT TTACTTACTA TCTAGTTTTG AATGTATAAA TTACATTCAT ATGTCTGGTG	60
	ACTATAGCAA GGNGGTCACA CCTGTTCCCA TGCCGAACAC AGAAGTTAAG CTCCTTAGCG	120
	TCGATGGTAG TCGAACTTAC GTTCCGCTAG AGTAGAACGT TGCCAGGCAT AATATTAATC	180
15	CACAGTAGCT CAGTGGTAGA GCTATCGGCT GTTAACCGAT C	221
:	(2) INFORMATION FOR SEQ ID NO: 4573:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4573:	
•	GCAGAAATGC CAGCCGCATT GAGTGAACAC AGAGTTACAG GGTATTCTGT AGCCGAACCA	60
30	TTCGGTGCAn TGGGGGAAAA GTTAGGCAAA GGTAAGACTT TGAAACATGG TGATGACGTT	120
	ATACCTGATG CGTATTGCTG TGTGCTAGTA CTHAGAGGGG AATTGCTTGA TCAACACAAG	180
	GATGTAGCGC AAGATTTGTA CAAGGTTATA AAAAGTCTGG CTTTAAAATG	230
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4574:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4574:	
	TCACATATCG ATAACATGAC ATAACTCATG CTGGGTTTCC CCATTCGGAA ATCTCTGGAT	60
	CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT CATCGGCTTC	120
50	TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CNATGTTTCC ACCATTTTTA	180
	TAAGTCAAAC GCTCACATAC GGCTTCGTTT TCATTAnTTT AAATGGCTCA	230
	(2) INFORMATION FOR SEQ ID NO: 4575:	

5	(A) LENGTH: 309 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4575:	
10	CTTACAATAG TGTGCAAGTT GGGGTGGAGC CCCGACACAG AGAAATTAGC TCCTCAATTT	60
	CTACAGACAA TGCAAGTTGG CGGGGCCCCA ACACAGAAGC TGGCGAAAAG TCAGCTTACA	120
	ATAGTGTGCA AGTTGGGGTG GGACGACGAA ATAAATTTTG CGAAAATATC ATTTCTGTCC	180
15	CACTCCCAAA AAGACCGCAG TAGGATAATT CCATTTGGAA ATACCTTACT GCCnGTTTTT	240
	AAAGTAATAG Chaatatttt GGAATTAnGT TTCCTAGTTA ACCATACCAA CTAATGGCCT	300
	CCTTAAATT	309
20	(2) INFORMATION FOR SEQ ID NO: 4576:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4576:	
	TGATTCTAGG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGGTAAA	60
	ATCTATATTT TACTTACTTA TCTAGTTTTC AATGTACAAA TAATGGTGGG CCTAAGTGGA	120
<i>35</i>	CTCGAACCAC CGACCTCACG CTTATCAGGC GTGCGCTCTA ACCAGCTGAG CTATAGGCCC	180
	ATTTTTTGA ATGTTAAATA AACATCMAAA CTGGMATACC ATATGTCACG GTAATCCGCA	240
40	(2) INFORMATION FOR SEQ ID NO: 4577: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4577:	
50	CTTCGTGTTA AAATTTGATG CACAATGGTC ATCATTTTTA TCTTTCCAAT AAGTACTGTC	60
	TGGGTAAAAA ThTATTAATT GGGTGGTTCG TGAAATGCAA TCTTTTTAAC GACTTCAGGG	120
	TAATCTTTTA ACACATGCAT CGCAACGATT GAACCTNAAC TTGAACCTAA TATATAGACA	180
EE		

	(2) INFORMATION FOR SEQ ID NO: 4578:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(ai) approximate programmer and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4578:	
	TAGGCATACC AAAGTCGATA CCATAGTGAC GACCGCCATT AAAGTTAAGT CCACCTGTGT	6
15	AACTCCCAAA CCTTTGCCAA ATTGGATGGT CAAATAGATA GCTTCCATCG CCTCCGCCAC	12
	CAAAATCTTC AAACCACGAT TTACTTTGnC TACTAATTTC TTTTTGAGCA ATGAGTACGC	18
	GCCTTAGCAA TTTTANGTAG CGTAGTCCGC TCCAAAATAA TATTAAACTG ACATACTTAT	24
20	TACNAGTTCC CTGGATGTGT ACATAATCCA CACATCGCGA TTTATCGCTA ACAGAGCACA	30
	CTTGATȚACG CGCGCTCAAC ATTC	324
•	(2) INFORMATION FOR SEQ ID NO: 4579:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. •
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4579:	
35	AATGTAAAAA CTGATTTCTA TTAATTATTT GATAGAAATC ACTTTTTTGT ATTTTATAAT	60
	GTACAGCTCG TTGCATTCAT ATAGCTTGAA GTCACGTTTA AAACCATATC TATCATTATG	120
	GTATGCATAT CGTTTAAAAC CTATTCTTTT GTTAnTAGGA CATATAAATT CATCATTAAT	180
40	TCGTCATATT TCCAATTTTG AGTGTnAAAA ATGTCACTTT TAAACTTTC	229
	(2) INFORMATION FOR SEQ ID NO: 4580:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4580:	
	CGGGGACTCN AACCCGTGTT GACCGCCGTG GAAAGGGCGG TGTCTTAACC GCTTGNACCA	60
<i>55</i>		

	CTCTACCACT GAGCTACTGT GGATTAATAT TATGCCTGGC AACGTTCTAC TCTAGCGGAA	180
	CGTAAGTTCG ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACA	.239
, 5	(2) INFORMATION FOR SEQ ID NO: 4581:	
10	(i) SEQUÉNCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4581:	
	CCGNACGAAT TTACACGTGT TCCGTCGTAC TCAGGATCCA CTCAAGAGAG ACAACATTTT	60
	CGACTACAGG ATTATTACCT TCTTTGATTC ATCTTTCCAG ATGATTCGTC TAATGTCGTC	120
20	CTTTGTAACT CCGTATAGAG TGTCCTACAA CCCCAACAAG CAAGCTTGTT GTnTTGGGCT	180
	CTTCCCGTTT CGCTCGCCGC TACTAAGGGA ATCGAATTIT CTTTCTCTTC CTC	233
	(2) INFORMATION FOR SEQ ID NO: 4582:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4582:	
35	TTAGTAAAAA GTCTGTGAGT AAGGGTGTAT GGAAAGTGGT TAAATATTAT AGAAAACATC	60
	AAAGGATGTT AAGAAATACA ATTTATTACC CAGCATTTAA TAATGGTGCT ATAGAAGGAA	120
	TTAATAATAA GATAAAATTA ATCAAGTGAA TTTCTTTTGG TTACAGAAAT TTCAnCAnCT	180
40,	TTAAAGCACG TATAATGATG GATTTTCAGC TTGTACAA	218
	(2) INFORMATION FOR SEQ ID NO: 4583:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4583:	
	TAATAAACAT GCCATACGTA ATAAGTGGCG TTGTATTAAA ATCATCTATA ATAGCCATAT	60
<i>55</i>		

	ATTTTGGAAT CATTGTTAAA AATGGAATTA AAGTTCTAGT GATCTGTTGG GTTTTGGAAA	180
	TAGGTCATAG GGTNAAAACN TTTTTGAGAA TTTGTCGCTA TTTGTTAAAT TGTATCCCGG	240
5	CTTGAAGTTG G	251
	(2) INFORMATION FOR SEQ ID NO: 4584:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4584:	
	TTTAGGACCG TTATAGTTAC GGCCGCCGTT TACTGGGGCT TCGATTCGTA GCTTCGCAGA	60
20	NTAACCCACT CCTCTTAACC TTCCAGCACC GGGGCAGGCG TCACCCCTAT ACATCACCTT	120
	ACGGTTAGCA GAGACTGTGT TTTTGATAAA CAGTCGCTnG GCCTATTCAA TGGGGGCTCT	180
	TCTGGGGGTT AAACCTAAAG AGCAACCCTT CTCCCGAAGT TACGGGGTC	229
25	(2) INFORMATION FOR SEQ ID NO: 4585:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4585:	
	TTATAAAAAG ATTTAAACGC GTTATTAATC TTGTGAGTGT TCTTTCGAAC ATAGCGATTA	60
	TITCTTATGA ATTCAAGCTT ATTTAAAACT CTTTATTCAC TCGGTTTTGC TTGGTAAAAT	120
40	CTATATTTAC TTACTTATCT AGTTTTCAAT GTACAATTMC TTTTTAGTCA AGCGCTCGCA	180
	TACTGCTnTA TTTTCAAAAA ATCAAATGCT CATTTACA	218
45	(2) INFORMATION FOR SEQ ID NO: 4586:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(with appropriate processing and the very second second	

	GGAATTCCAC TTTCCTCTTC TGCACTCAAG TTTTCCAGTT TCCAATGACC CTCCACGGTT	120
	GAnceggge titteacate agacttaaaa aacegeetae gegegettet aegeeeaata	180
5	ATTCCGGATA ACGCTTGCCA CCTACGTATT TACCGCGGGC TGCTGGCACG TATTNAGCCG	240
	Ŧ	241
10	(2) INFORMATION FOR SEQ ID NO: 4587:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4587:	
20	CAGCCACCTG TTGCCACCAG CTACACTTGC ATTGTTTGCT ACGACACGCC CAAACAATGC	60
	TGAAGTGAAT AAGAAATCAA TCATTTGCTC TTCTGTTAAA TCATGTGTTT TTTCTAATTT	120
25	AAAAAGTGCA CCGGGAATGG TACCCGAGGA ACCAGCTGTT GGCGTTGCAC AAATAATACC	180
	CATCGCAGCA TTGACTTCAT TGTTGCAAGG CACCnTTGAC TGCGGCAATC ATTCATATCC	240
	GACNAAGCAG ATG	253
30	(2) INFORMATION FOR SEQ ID NO: 4588:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4588:	
40	ATGAACGGGT GGTAGCGAGT GGACGAAAAA CATCAATGAA AAGCTAGCTG TAGTTGCAAG	60
	AGAAACTGGC TTACGATGGC ATTGGATCAA CACATGCGGC ATTGAGAAAT CCACGCATGG	120
45	CTGAGACGIT TACGATTGCG CGAAAAATGA ATCCTGAAGG CATTTTAGCA ATGTTGGTGC	180
45	GGACGTACCA GTAGAAAAGG CTTTGGAAGC AGTTGAAT	218
	(2) INFORMATION FOR SEQ ID NO: 4589:	
50 [°]	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4589:	
	GCCATGGCTC CACAGGTAGG ACTCGAACCT ACGACCGATC GGTTAACAGC CGATAGCTCT	60
5	ACCACTGAGC TACTGTGGAT TAATATTATG CCTGGCAACG TTCTACTCTA nCGGAACGTA	120
	AGTTCGACTA CCATCGACGC TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT	180
	GACCTCCTTG CTATAGTCAC CAGACATATG NATGTA	216
10	(2) INFORMATION FOR SEQ ID NO: 4590:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4590:	
	AGATTTAAAT AATCAAAAGT GCACATTATT AAAATATCAA TTTCACACTC AATGCGGCTC	60
	ATCHCATTCA TTTCTTGTCT AGCAACGTTC TACTCTAGCG GAACGTAAGT TAGCTACCAT	120
25	CCTCGGCTAA GAACCTTTCT TGACTTGTGA CAATCGGCTT GCTTCTTTCC TCTCCTTCGG	180
	CTCTCGCTAC TCAATTTAGC TCTACTAAAC TCGGTTGCGG CTCTTTTCTn GTTT	234
30	(2) INFORMATION FOR SEQ ID NO: 4591:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4591:	
40	AATTGACTGA CTTCGTTTTA CCGCGTGTTT AATATTGTTA TACATATATT CTAATTGCAC	60
•	ATTTAAACTT CGTAAATGCC AATGTGnGTG GGACAGAAAT GATATTTTCG CAAAATTTAT	120
45	TTCGTCGTCC CACCCCAACT TGnCACATTA TTGTAACCTG ACTTTCCGCC AGCTTCTATG	180
	TTGGGGCCCC GCCAACTTGC ACATTATTGT AAGCTG	216
	(2) INFORMATION FOR SEQ ID NO: 4592:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

٠.,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4592:	
	ATTCCGGATA ACGCTTGCCA CCTACGTATT ACCGCGGCTG CTGGCACGTn TTAGCCGTGG	6
5	CTTTCTGATT AGGTACCGTC AAGATGTGCA CAGTTACTTA CACATATGTT CTTCCCTAAT	120
	AACAGAGTTT TACGATCCGA AGACCTTCAT CACTCACGCG GCGnTGCTCC GTCAGGCTTT	180
٠.۵	CGCCATTGCG GAAGATTCCC TACTGCTGCC TCCCCG	216
10	(2) INFORMATION FOR SEQ ID NO: 4593:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4593:	
	TTGGACTAGA ACCAATGAAG GACGTTACTA ACGACGATAT GCTTAAAGGA GCTGTAAGTA	60
٠.	AGCTTTGATC CAGAGATTTC CGAATGGGGA AACCCAGCAT GAGTTATGTC ATGTTATCGA	120
25	TATGTGAATA CATAGCATAT CAGANGGCAC ACCCGGAGAA CTGAAACATC TTAGTACCCn	180
	GTGGAAGAGA AAGAAAATTC GATTCCCTTA GTAGCGGCGA GCAGAACG	228
30	(2) INFORMATION FOR SEQ ID NO: 4594:	•
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4594:	
40	CAATCGTTGA AGGAAATGTA CCAGCAGCAA TCAAAGACAA AGAAATTATT TCTGTAGACA	60
	TTTCATCATT AGAAGCTGGA ACGCAATATC GTGGTGCTTT TGAAGAAAAT ATTCAAAAAT	120
45	TAATCGAAGG TGTTAAATCT TCACAAAATG CCGTACTATT CTTTGATGAA ATCCATCAAA	180
	TTATCGGTTC AGGTGCCACA GNAAGTGGAT TCCAGGTTAG CCAAAGGGGT TAATCTGGAT	240
	TAATITITT In	252
50	(2) INFORMATION FOR SEQ ID NO: 4595:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4595:	
5	ACTCTCTAGT GACCGATAGT GAACCAGTAC CGTGAGGAGA AGGTGAAAAG CACCCCGGAA	60
	GGAGNTGAAA TAGAACCTGA AACCGTGTGC TTACAAGTAG TCAGAGCCCG TTAATGGGTG	120
10	ATGGCGTGCC TTTTGTAGAA TGAACCGGCG AGTTACGATT TGATGCAAGG TTAAGCAGTA	180
	AATGTGGAGC CGTAGCAGAA GCACGGTTCT GGAATAGGGG CGTTTTAGTT ATTTTGGGTC	240
	GTTACCCGGG AGnAAAGG	258
15	(2) INFORMATION FOR SEQ ID NO: 4596:	
20 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4596:	
	CCTACCGCTG CAGCCGCTGG ATCTGCTGGA GTTGCATTAG GATCTGCCGG TGCCGCACGT	60
	CTACTTCTCT TTTTCGGTCT ATTAGATGCT GGTTCAGCAA TTGCAACTAG CTCTGGTTTA	120
30	TTTGAAGAAT GACGAACATC TTCTTGAATT TCCTTTAAAG TAGATGTCCT CCTGAACCAT	180
	ThCATTGTTT AGTTGGGTAC ATTAATGChG TATTATCGAC ACTACATCA	229
	(2) INFORMATION FOR SEQ ID NO: 4597:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 246 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4597:	٠
45	GCTCACCTTA GAATTCTCAT CTTGCACTCA CCTGGTGGTC GGTTTGGCGG GTAGGGTCAC	60
	CTATTTTCTA TCTAGCAGGC TTTTCTCGGC AGTGTGAAAT CAACGACTCG AAGnCACAAT	. 120
	GGTCTTCTCC CCATCACAGC TCAGCCTTAA CGAGTACCGG ATTTGCCTAA TACTCAGCCT	180
50	TACTGCTTAG ACGTGCAATC CAATCGCACG CTTCGCCTAT CCTACTGnGG TCCCCCCATC	240
	GATTAA	246
	(2) INFORMATION FOR SEC ID NO. 4508.	

. 5	(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4598:	•
10	AAGAAAATAA AGAATGCTAC AATTACGATT GCAATCAAAC CAAAGAACCA TAATGATGTG	60
•	TACCAAGTGC TGCACCTTTA GTAATGACAA CGTTTAAACT TAGCAACATA ACTACTAGAA	120
	CAATTAGCCC TGCAACGTCA AATTTATGTG TATTGGTAAT TTCTGATTTC GTTTCAGGCG	180
15	TCCCTTTGAT GAGTAGCATT GAAAGTACGG nAACGATGNG TTG	223
	(2) INFORMATION FOR SEQ ID NO: 4599:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 219 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· ·
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4599:	
	nTnTCACTGT TTGACCCGGT ACCGTGTCAG ATAATCCCGC ACGCAATGCA ATCGTTCGTG	60
30	CAATGTTTTG GCCTTGTAAT CCTTCTGGAA AAGCCGTACC AACAATGACA TCTTCAATCA	120
	TATTCTTATT GAATTTTCCG TCAATACGTT TCAATACGCC TTGTAATACT TTGGCTGCGA	180
	CATCATCAGG TCTTTCGTGG AATAATGCGC CTGCTTTGC	219
35	(2) INFORMATION FOR SEQ ID NO: 4600:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4600:	
	AAGGTTAAGA GGAGTGGTTA GCTTCTGCGA ATACCGAATC GAAKCCCCAG TAAACGGCGG	60
	CCGTAACTAT AACGGTCCTA AGGTAGCGAA ATTCCTTGTC GGGTAAGTTC CGACCCGCAC	120
50	GAAAGGCGTA ACGATTTGGG CACTGTCTCA ACGAGAGACT CGGTGAAAAT CATAGTACCT	180
	GTGAAGATGC AGGTTACCCG CGGACAGG	208
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 4601:	

5	(A) LENGTH: 286 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4601:	,
10 .	AGTGCCAGTG ATTAACTGCA TTTTTCAATA GATCAGGGAA GACTACCAAG CTTATGTTGA	6
•	AGGACATCTT TTGGCGTTAC CGGTTGGGCA GGTATGTTGT ATTACCGTTC ACAACAGCAT	. 12
	CACTIGAACA ACATTIGITA ACGGATTATI TGGCAATTCG TTATTGTCGA ACANTGCNAG	18
15	TTGGTGAGAT TTAATCATCG CTAAAGATGT GAAATAGATC GAAAATGGTT TAAGCAAACG	24
	TTGCTCAGGT GTTACTACGT GATATGCCTA GCGAGTATAC TACAAC	. 28
20	(2) INFORMATION FOR SEQ ID NO: 4602:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4602:	
30	ATATGGCTAT GGTATTCACA TATCGATNAA CATGGACATA ACTCATGCTG GGTTTCCCCA	6
	TTCGGGAAAT CTCTGGGATC AAAGCTTACT TACAGCTCCC CAAAGCATAT CGTCGTTAGT	12
	AACGTCCTTC ATGGCTTCTA GTGCCAGGCA TCCACCGTGC GGCCTTAATA ACTTAATCTA	18
35	TGGTTCCACC CATTTTATA GGTCAAACGG TAACATGAGG TAGGGTCTTT TATAAAAAGG	24
	nttaaacgg gtattaatct tgtg	264
40	(2) INFORMATION FOR SEQ ID NO: 4603:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4603:	
50	GAAACGTTAG CACAAGCCAT GAACCAATTA GGTGGAAAGA GTAATAGTGG TGAAGGTGGC	60
	GAAGATGCAA AACCGTTATG AAGTACAAGT TGATGGAAGC AACAAAGTAA GTGCGATTAA	120
<i>55</i>	ACAAGTTGCT TCTGGGCGTT TTGGTGTAnC TAGTGATTAT TTACAACATG CCAAAGAATT	180

	TATCCn	246
5	(2) INFORMATION FOR SEQ ID NO: 4604:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4604:	
15	ATTAACTAAC ATGGGCATCT ACGATGGAAA CAGACGTGGT ATCCTCGCTA TTATCCAGCT	60
	ANCGCCATGC TGGCTCGTTT TTCAAATCAA GCCATTTTAA ATTTTGGAAA GGTGTATGGA	120
20	CCAAGCCCTA TGACATTGCA TTCACCGATT GAACACGATG TTATCGCCAT GTCTCATGGA	180
20	GAAAATCAAG AGCATCATTC AGCAGTATCG CGATGCTACA TTACGCGCGA TTAAAGCAGn	240
	TTTGATGG	248
25	(2) INFORMATION FOR SEQ ID NO: 4605:	A
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4605:	
35	CAAGTTTTCC AGTTTCCAAT GACCCTCCAC GGTTGAGCCG GGACTTnTCA CATCAGACTT	60
	AAAAAACCGC CTACGCGCGC TTTACGCCCA ATAATTCCGG ATAACGCTTG CCACCTACGT	120
40	ATTACCGCGG CTGCTGGCAC GTATTAGCCG TGGCTTTCTG ATTAGGTACC GTCAAGATGT	180
40	GCACAGTTAC TTAACACATG ATGTTCTTCC CCTAAATGAA CAGAGTTTTG TTTTGTTTTn	240
	TGGGTT	246
45	(2) INFORMATION FOR SEQ ID NO: 4606:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	•
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TGTATCTGCA GTTAAATCAT GTnTCGCTTG GTTTAATGCT GTTAATGCGT TATCGACACG	120
	ATGTTTTCA TCTGAAATTT GTTGTGCAGT TGCATCGCCA TTGTCAATAA CACGTTGAGC	180
5	TGCAGTTATT TCAGTTTCTG CTTCACGCTn CT	212
	(2) INFORMATION FOR SEQ ID NO: 4607:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4607:	٠.
	TAGTCAAGAT GAGAATTCTA AGGTGAGCGA GCGAACTCTC GTTAAGGAAC TCGGCAAAAT	60
20	GACCCCGTAA CTTCGGGAGA GGGGTGCTCT TTAGGGTTAA CGCCCAGAAG AGCCGCATGA	120
	ATAGGCCCAA GCGACTGTTT ATCAAAAACA CAGGTCTCTG CTAAACCGTA AGGAnTGTAT	180
•	AGGGGCTGAC GCCTGCCCGG TGCTGGAAGG TTAAGAGGAG TGGTTAGCTT CTGCGAGTAC	240
25	GGAATCGAAG CCCCAGTAAA CGGCGG	266
	(2) INFORMATION FOR SEQ ID NO: 4608:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4608:	
	TTCAGTACGT AAATACGCAC GTGAAAAAGG TGTTANATTA AAGCAGTTTC TGGATCTGGT	60
40	AAAAATGGTC GTATTACAAA AGAAGATGTA GATGCATACT TAAATGGTGG TGCACCAACA	120
	GCTTCAAATG AATCAGCTGC TTCACTGACA AGTGAAGAAG TTGCTGAAAC TCCTGCAGCA	180
	CCTGCAnCAG TGAACATTAG AAGGCGACTT CCCAG	215
45	(2) INFORMATION FOR SEQ ID NO: 4609:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGGTTCATAC ATGTCAATAG TAACCGTCTT AACTTGTTGT CGATTTTTTA AATCGAATCG	. 60
5	CTCGAAATAG GCACGCAAGA ATCTTGTAGT TCTATTTTCT AAAATATCTA TAACATCATG	120
	GTATCATTAT CTATAAAAAT GAAACTCATT GATCCAGTTA CATTTTTAAC GCTTTTAAAT	180
	TCATCCATAG CGATGTGGTT CCTGCCAACC ATTAAAGGGG TTAATTCNGA ATNGATTAGC	240
10	c	241
	(2) INFORMATION FOR SEQ ID NO: 4610:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·,
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4610:	
	ATTCATTTCT TGTCTAGCAA CGTTCTACTC TAGCGGAACG TAAGTTAGCT ACCATCCTCG	60
25	CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC	120
	TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG	180
	TTTCAnTTCG CCAAGCCATT TTTCTTTGGT GnTTA	215
30	(2) INFORMATION FOR SEQ ID NO: 4611:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4611:	
40	GTGCCATCTT TCTTCATCAA TTCATTAATA ATTGCTGGGA CGCCACCAGC TTCATGCACA	. 60
	TCATGCATTG AATACGATGA ACTAGGTGCT ATTTTTGATA AATATGGCGT GCGTTTGGCA	120
45 ·	ATAGCATTAA TGCGCTCTAA GTCATAATCA ATACCAGCTT CATTGGCAAT GGCTAACGTA	180
45	TGCAGTACCG TGTTTGTTGA ACCACGGCAC ATCTTCGCCA ATTTCTTCTT TAAACAAGTT	240
,	TAAATTATCT TGTGATTCAG GTAAATCCAT CTTGTTAGCT ACTACGATTT GAGGTCTATC	300
50	TTCTAAACGT TGCTCGTACG GCGGCTAATT CTGGATTAAT GACTTTATAA TCTTCAATAG	360
	GGTCTCTACC TTCAGAACCG CTCCATATCC ATCCTGTGGA	400
	(2) INFORMATION FOR CRO ID NO. 4512.	

5	(A) LENGTH: 258 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4612:	
10	AATACTATTA AGAAGTCCTG AAAAATTCAC ATTAGCAGTT GGATTGTTCA ACTTTATTAA	60
	TGATAAGTAT GCAAATAATT TCACAGTGTT TGCAGCAGGG GCAATTATGA TTGCAGTACC	120
	TATAGCAATC GTATTCTTGT TCTTGCAACG CTATTTAGTA TCAGGTTTAA CAACAGGTGC	180
15	CGACCAAAGG GTTAGTTTGA ATTTAGGAGT GGGGCCAGAT TGGTTAAGGA CCNCCTAATG	240
	ACCGTTAAGG TTNAAAGG	258
00	(2) INFORMATION FOR SEQ ID NO: 4613:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) TOPOLOGI: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4613:	
30	GACTTCGTTT CAGTGTAAAA TTTTTCTAAT GTAACAGATA TGCTATTATT CATTGGAATG	60
	ATTAGTGCTT CATCTTTTTT ACCCCAATAT TTTATAAGTG CAATTCGTAT GTGCACGTGC	120
	TTTGCCACTT TTAATCAACG CTTAACCTCC TAAATTCTCA ATCCAAGTAT GTGCTGCACC	180
35	AGCTTTTTC TACAGCTTTT ACAATATTnn	210
	(2) INFORMATION FOR SEQ ID NO: 4614:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 235 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4614:	
	TAGCGTATTA ATCGGCGGAT CGGCTGAGCG TATCTGAGTC TGAATCGCTG TCTGAGTCTG	60
50	AGTCGTATCC GAGTCTGAGT CGCTGTCTGA nTCTGAATCA CTGTCTGAAT CCGNATCGCT	120
	ATCTGAATCT GAATCGCTAT CCGAGTCTGA GTCGCTGTCT GAATCTGAAT CGCTGTCTGA	180
	GTCCGAATCG CTATCTGAAT CTGAGTCGCT GTCTGAGTCT GAATCGCTAT CTGAA	235
EE	The state of the s	433

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4615:	
	ATGTGCGTGG TTTATTTTAA TAGGTTAGTA ATATATTAGG TCATGTTATG TTTAAnTTTA	6
	TAATGAATAA ATAATTTAGA AATATGCTTC CGATTGTTCG ATGCTTTAAT TCAGTTAGAA	12
15	GCATCATAGA ATGCATGATT ACTGTTGTAA AGATACGTAA TGTTTTGTAT TGACTGTATG	18
	TChTTGGATA GAGTTACAAA CTTATTTTG	20
	(2) INFORMATION FOR SEQ ID NO: 4616:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4616:	
30	ATGCGCAAGA TATGGAGAAC ACCATCGCGA AGCGACTTTC TGGTCTGTAA CTGACGCTGA	, 60
	TGTGCGARAC RTGGGGATCA AACAGGATTA GATACCCTGG TAGTCCACGC CGTAAACGAT	120
	GAGTGCTAAG TGTTAGGGGG TTTCCGCCCC TTAGTGCTGC AGCTAACGCA TTAAGCACTC	180
35	CGCCTGGGGA GTACGACCGC AAGTTGGAAA CTCAAAGGAA TT	222
÷	(2) INFORMATION FOR SEQ ID NO: 4617:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4617:	
	CAGTTTGCAA CACCCCAATT CTTGCCAGTC AGCATGATTC TGTTCATTTC TGCGATTTCT	60
50	TTGTCGATAT TTTCAAATCT TGTTGGACTT GATCTAAATC AATTGGTGCT TCTTCTTCGA	120
	ATGTATCAAC ATATCGCGGT ATGTTTAAGT TGTAATCGTT ATCGGNGATC TCTTGTAATG	. 180
	TCGCGCTGTG GCTATATTTA TCAATCGTGG CTTTACGCTT ATATGGGGCT ATAATACGTT	240

3030

55 ·

	(2) TYPOPYING TO TO TO TO TO TO	
	(2) INFORMATION FOR SEQ ID NO: 4618:	
	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 216 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4618:	
		•
	TCTAATTGAT AGTGAATATA ATTAGAGTTN GAGGCTGGGA CATAAATCCC TAAATTTCAN	60
15	CAGTAAGATA ATTTTCAATT AGAAAATATC TTACTGCTGT TCTCTATTTA TACAATACTT	120
	CATTGGAATG GCTTCGCTTT CCTAGGGTGC CGTCTCAGCC TCGGTCTTCG ACTGGGCACT	180
	CCTCCCTCAC CCCTCTCCCC ATTTA ATTACT A CCTAA	
	GCTCCCTCAG GGGTCTCGCC ATTTAATACT ACGTAT	216
20	(2) INFORMATION FOR SEQ ID NO: 4619:	
	(2) INFORMATION FOR SEQ ID NO: 4619:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
	· · · · · · · · · · · · · · · · · · ·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4619:	
•	ATGTATCGCG CCGAGCAACA CAAGATAAGC ATTGTAGATG TGGATGCCTT AACTGGGCAA	
	AIGIAICOCO CCGAGCAACA CAAGAIAAGC AIIGIAGAIG IGGAIGCCIT AACIGGGCAA	60
	GCGATTNGTC GTCCTAAAAC AGGTACATAT GCGCTATCTG ACCTAGTCGG TTTAGATATT	120
	THATATA	120
<i>35</i>	GCAGTGTCTG TAATTAAAGG CATGCAACAA GTACCTGAAG AAACACCCNT ATTTTCATGA	180
	TGGTCAAAAT TTGTAAATAC GTTGTTTTGA CAATGGGCGC ACCTCGGACC GTAAAACG	238
	(2) INFORMATION FOR SEQ ID NO: 4620:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4620:	
•		
50	AACCATTGAA GCACCCCATT ACGTTTTGGC TGACACGNAC GTATATCGCC TGCCCAAGCA	60
	GATGCAGCCT TATTAACACC TGAACCACTT CGAACGCCAC TACCTTTAAG TGACTTCAAC	120
	CATTTTTCCT GGATCTTTAG CTGTATGCAT TGCCCTGGAT GCGACCCTTG nCATCAATTG	180
<i>55</i>		

	TTGACCAGC	249
	(2) INFORMATION FOR SEQ ID NO: 4621:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4621:	•
15	TGGACCTGTA AAAGGAGACT CGATTGTAGA AAAAGAAGAA ATTCCATTCA AGAAAGAACG	60
	TARATTTAAT CCTGATTTAG CACCAGGGAC AGAAAAAGTA ACAAGAGAAG GACAAAAAGG	120
	TGAGAAGACA ATAACGACGC CAACACTAAA AAATCCATTA ACTGGAGAAA TTATTAGTAA	180
20	AGGTGAATCG AAGAGAAATC ACAAAGTCCG TTnTGGnTTA CAGGTACGGC AGAACGATAC	240
	ACAGTCTCGG GCGATTGTCG AGTCCAC	267
25	(2) INFORMATION FOR SEQ ID NO: 4622:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(5) 10102001. 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4622:	
35	CAAAAGGTAG TTTAAATTAG GAGTGGGGAA ATTGATAAGA CCACTAATGA CGATAAAGAT	60
	TAAAAGGANG ACGTTATGAT GACGATTAAA GTTGGATCAT TGGGTGTGGT GGTATTCCAA	120
40	TGGCAAGCAC ATGCCAAGTT TACAAAAAGT TGAAATGTTG AAATGAnCGC ATTTTGTGAC	180
70	GTAGACATTT CGAAGCAGCG AGTGCGGCAG AAGCATACGG ACTGACAATG C	231
	(2) INFORMATION FOR SEQ ID NO: 4623:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4623:	
	CGAAACCGGC CCGACCCGGA CChACCCGAG GAAAGGTACC ChAAAGnTGA AGCCCGGGAA	60
<i>55</i>		

	CCCAACACCC ACCCGGACAC CAGAAGTGCC GGAGTGAGCC AGAAACTCCA ACACCGCCAA	180
	CACCAGAGGT ACCAGCTGAA CCTGGTAAAC CAGTACCACC TGCCAAAGAA GAACCTAAAA	.240
5	AGCCTTCTAA ACCAGTGGAA CAAGGTAAAG TAGTAACACC TGTTATTGAA ATCAATGAAA	300
	A.	301
10	(2) INFORMATION FOR SEQ ID NO: 4624:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4624:	
20		
	CGAGGTGCTG CAGAAGGTGT CATTCGTCGT TATTTAATTG AAGAAAAGAA	60
	GCTGTGATTG GTTTGCCAGC GAATATTTTC TATGGGACAA GTATTCCAAC ATGTATTTTA	120
25	GTATTTAAAA AATGTCGCCA ACAAGACGAC AACGTACTAT TTATCGATGC ATCCAATGGT	180
LU	TTTGAAAAAG GGGNAAATCA TAATCATTNG GCGATGCCCA AG	222
	(2) INFORMATION FOR SEQ ID NO: 4625:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4625:	
	TGGAAAGTGA ATCAAAGAGG TAATATCCGT AGTCGAAATG TTGTCTCTCT TGAGTGGATC	60
40	CTGAGTACGA CGGAGCACGT GAAATTCCGT CGGAATCTGG GAGGACCATC TCCTAAGGCT	120
	AAATACTCTC TAGTGACCGA TAGTGAACCC AGTACCGTGA GGGAAAGGTG AAAAGCACCC	180
45	CCGGAAGGGG AAGTGAAATT AGGAACCCTG AAAACCCGTG TGCTTTACCA AAGTTANGTT	240
	CAAGAGGCCC CGTTTAAATT GGGGTnnAAT TGGCGGTGCC CTTTTTTGGT AGGAATTGAA	300
	A	301
50	(2) INFORMATION FOR SEQ ID NO: 4626:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid	
5E:	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4626:	
5	GAATGAAGGA AGACCATATG AAAAATGGCC AACTTAAGCC AGGATACAAT TTACAAATAG	60
	CGACAAATTC TCAATTTGTT TTATCCTATG ACCTATTTCA AAACCCAACA GATACTAGAA	120
10	CATTAATCCC ATTTTTAnCA ATGATTCAAA ATACCTTCGG TTATTTACCA GAGTATATTG	180
,,,	TAGCTGATGC AGGTTATGGT AGTGAGCAAA ACTATATGGC nAT	223
	(2) INFORMATION FOR SEQ ID NO: 4627:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4627:	
	TTGTTGGGGC CCCGCCnGCG nCATTGCCTG TAGAATTTCT TTTCGAAATT CTCTGTGTTG	60
25	GGGCCCCTGA CTAGAATTGA AAAAAGCTTA TTACAAGCGC ATTTTCGTTC AGTCAATTAC	. 120
	TGCCAATATA ACTTCGTAGA TCATAGAACA TTGATTTATT TCCCAGCCTA TTCTTTCAT	180
30	AAAAAAAGA CGGATTAATT ATCCGCTTTT TCCTTATATC T	221
	(2) INFORMATION FOR SEQ ID NO: 4628:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4628:	
	ATATATTCGT ATTTATAGTA AAATTAAATA AAGAGNATTA TATAACACGA GGTGTAGTAA	60
45	GTATGAAATT TGAGNAAATA TATAGATCAC ACTTTATTGG AAGCCTGAGT CAACACGTAC	120
	GCAAATCGAT CAAATCATCG ATGAAGCGAA GCATACCAAT TTTAAATCTG TATGTGTGAA	180
	TCCACCACAT GTTAAATATG CAGCAGAG	208
50	(2) INFORMATION FOR SEQ ID NO: 4629:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 305 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4629:	
	ACAATAATGC ATCATAATGC GCAACAACAA TCAATACTGC GAAAACAGAA GCACAACAAG	6
<i>5</i>	TGATTAATAA TGAGCGTGCA CACCACAACA AGTTTCTGAC GCACTAACTA AAGTTCGTGC	12
	ACACAACTAA GATTGATCAG CTAAAGCTTA CTTCAAAATA AAGAGATATA GCCATTAGTA	18
10	ACGTTAAAAT AACTTACAAG nTCTGTGACC AGTACCTCAC TGTGGTATGA CGCACAAGTA	24
	TTGATACTnT ATCGAGAGCG TGAGNGAACT GAATACTGCG CTCACGGTAT TACATGCGTG	30
	CACTG	30
15	(2) INFORMATION FOR SEQ ID NO: 4630:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4630:	
	TCGACTACCA TCGACGCTAA GGAGCTTAAC TTCTGTGTTC GGCATGGGAA CAGTGTGACT	60
	CCTTGCTATA GTCACCAGAC ATATGAATGT AATTATACAT TCCAAACTAG ATAGTAAGTA	120
30	AAAGTGATTT GCTTCGCCAA ACATTTATTT TGATTAAGTC TTCGATCGAT TAGTATTCGT	,180
	CAGCTCCACA TGTCACCATG CTTCCAnCTn GAA	213
	(2) INFORMATION FOR SEQ ID NO: 4631:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4631:	
45	GANGTGAAAT AGAACCTGAA ACCGTGTGCT TACAAGTAGT CAGAGCCCGT TAATGGGTGA	60
	TGGCGTGCCT TTTGTAGAAT GAACCGGCGA GTTACGATTT GATGCAAGGT TAAGCAGTAA	120
	ATGTGGAGCC GTAGCAAAAA CnAAGTTCTG AATAGGGCGT TTAGTATTTG GTCGTAGCCG	180
50	GAAACCAGGT GATCTACCCT TGGTCAAGTT GAA	213
	(2) INFORMATION FOR SEQ ID NO: 4632:	

5	(A) LENGTH: 205 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4632:	
10	GCTTTTAAAT CAAATGATAG CGGAAGGGNA TTTTAAAATT ATTCGAACCA TTATTTACAG	. 60
	CAGCAGATGG ATGGATTGGT GTCACAATTA TCTTTGGTGC CTTTGCATTA TTCTGGTTTG	120
•	TAGGTATTCA TGGTCCGTCA ATTGTAGAGC CAGCAATTGC AGCCATTACA TATGCGAATA	180
15	TCGAAGCGAA CTTCAAGTTG CTTCA	205
	(2) INFORMATION FOR SEQ ID NO: 4633:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4633:	
	AGTTATATTG ACAGTAGTTG ATGGGGCCCC AACATAGAGA AATTGGAACA CCAATTTCTA	60
30	CAGACAATGC AAGTTGGGGT GGGCTCTAAC ATAAAGAANT ACTTTTTCTn TAGAAATTAG	120
•	TATTTCTTAT ACATGGGTTT TACTCAGTAT TTCCTATTCT TAAGTGCACA TTAGCAGCGG	180
	CTAATGTGTT AAGAACTACT ACAT	204
35	(2) INFORMATION FOR SEQ ID NO: 4634:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4634:	
	GCCGATGGAT TAGAGTATAT GACGTGGTGG CATGTCATTA ATTTAGGTGA TGTAGGTAAG	60
50	AACGTTNGGG CAAGGTATGA GTGGTGGTAT TGCGTTACGT TAGCCCGTCT GATGTAGAAG	120
•	CTTTTGTTGA AAATAATCAA CTAGATACGC TTTCGTTTAC AAAGATTAAA CACCAAGAAG	180
	AAAAAGCATT CATTAAGCAA ATGCTGGAAG AnCCATGTGT CACACA	226
55	(2) INFORMATION FOR SEQ ID NO: 4635:	

5	(A) LENGTH: 208 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4635:	
10	CATATAGTTT TGCTCACTAC CATAACCTGC ATCAGCTACA ATATACTCTG GTAAATAACC	60
	GAAGAGTTGT TGAATCATTG TTAAAAATGG GATTAATGTT CTAGTATCTG TTGGGTTTTG	120
	AAATAGGTCA TAGGATANAA CNGTACGGAG AATTTGTCGC TATTTGTAAA TTGTATCCTG	180
15	GCTTAAGTTG GCCATTTTTC ATATGGTC	208
	(2) INFORMATION FOR SEQ ID NO: 4636:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4636:	
	TTTTTCTTTG TGTTTATTTT TATTTTGAAC GTTTTAGGAC ATAAAAAAA GTAGACCTTG	. 60
30	CGGTCTCAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA	120
	CGTAAGTTGG CTACCATCGA CGCTAAGAAC CTTTCTTGAC TTGTGACAAT CGCTTGCTTC	180
	TTTCCGCTTC TTCTGCTCGn GCTTACTCAT TGAGCnCTAC TAAACTCG	228
35	(2) INFORMATION FOR SEQ ID NO: 4637:	•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4637:	
	CATGGTTCAA AAGTGAAAGA CGGTCTTGCT GTCACTTATA GATGGATCCG CGCTGCATTA	60
-	GCTAGTTGGT AAGGTAACGG CTTACCAAGG CAACGATGCA TAGCCGnCCT GAGAGGGTGA	120
50	TCGGCCACAC TGGAGCTGAG ACACGGTCCA GACTGCTACG GGAGGCAGCA GTAGGGNATC	180
	TTCCGCAATT GGCGAAAGCT GTACGGGCAA CG	212
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 4638:	•

	·	
<i>5</i> ,	(A) LENGTH: 256 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4638:	
10	ATHITHATTAA ATAGAGAACA GCAGTAAGAT ATTITCTAAT TGAAAATTAT CTTACTGCTG	60
,,	TITTITAGGG ATTTATGTCC CAGCCATTTT TGTATTCATA TITAAATTTC GATAATTTTT	120
	CAGGAAGCAT TTTAATTTTA CTAATGAAGC CATATTTTTA GATTAACCAA AATTAATATT	
15		180
	TACATTTCCT AACCATTTTT ATGTAACATT TACAGTTCCA AAAATGGGGG TAATAATCCA	240
	GGTTAGGATA AAGAGG	256
00	(2) INFORMATION FOR SEQ ID NO: 4639:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 209 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4639:	
30	ANAGNAACCA CTACATAATA AATCATTAGT GGCTCTTTAT CATTTCTGTC CCACTCCCCT	60
	GAGAAGTTTA AAATTTTATA TGTTGGCTTG TTATGTTAAG GGAATTAACA TGGTTGTCTT	120
	GTTTATATTA TGTGATTCCA ACATTACTAG TCCTGGTAAA TCTAATTCCG TAAAATGCTA	180
35	AATCTAACCA TCTATTAAAT TTTAAAACC	209
	(2) INFORMATION FOR SEQ ID NO: 4640:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4640:	
	ngnaaaggtg aaaagcaccc cggaagggag gtgaaataga acctgaaacc gtgtgcttac	60
50	AAGTAGTCAG AGCCCGTTAA TGGGTGATGG CGTGCCTTTT GTAGAATGAA CCGGCGAGTT	120
	ACGATTTGAT GCAAGTTAAG CAGTAAATGT GGAGCCGTAG CAGAAGCATG GTCTGAATAG	180
55	GTGCGTTTAG TATTTGGTCG TAGCCCGCAG AACCAGGGTG ATCT	224

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4641:	
	CACTCACNCA GATTTTTAAG TCCTGTGCGT CTGCCAGTTC CGCCACCCCG GCACTATAAA	60
	ANTGGAGCAG AAGACGGGAT TCGAACCCGC GACCCCAACC TTGGCAAGGT TTTATTCTAC	120
15	CGCTGAACTA CTTCTGCATA TGCGGGTGAA GGGAGTCGAA CCCCCACGCC GTAAGCTANG	180
	ATCCTAAGTC TAGTGCGTCT GCCAA	205
	(2) INFORMATION FOR SEQ ID NO: 4642:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4642:	
30	AGCTGACATG ATCAGTCAGC TTACAACAAT GTGCCGGTTG GGGTGGCTGG ACACGGCACC	60
•	CTGAGGGAAG GGCACCCGTC ATCAAAAATT CTATTTATAG AATTTTACAG TAATGTGACA	120
	GACGGGCAAA GCGAACCATT CAATACGAAG TATTGTATAA ATAGAGAACA GCAGTAAGAT	180
35	ATTTTCTAAT TGAAAATTAT CTTACTGCTG TnTTTTTAGG GATTTATGTn CCCAG	235
	(2) INFORMATION FOR SEQ ID NO: 4643:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
· -	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4643:	
٠	AGNAAGGTGG GGATGACGTC AAATCATCAT GCCCCTTATG ATTTGGCTAC ACACGTGCTA	60
50	CAATGGACAA TACAAAGGCA GCGAAACCGC TAGTCAAGCA AATCCCATAA ATTGTTCTCA	120
	GTTCGATTGT AGTCTGCGAC TCGACTACAT GAAGCTGGAA TCGCTATAAT CTAGATCAGC	180
	ATGCTACGTG ATAGTTCCGG GTCTnTACAC ACGCCCGTCA CACCACGGAG GGTTTTACAC	240
<i>55</i>		

TTCCTAACAT TTACACCCTC CATTTTAGAG GGAGTGGGAC AGAAATGATA TTATCGTAAA ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTChCTT GTTGGGGGCC CGCGGGCAAG GThACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		(2) INFORMATION FOR SEQ ID NO: 4644:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4644: CAGCAGGCCA CCAAAATTGT GGTCCGAGAT GTTCATATAA AACTTTATAT AATTCATCAG TTCCTAACAT TTACACCCTC CATTTTAGAG GGAGTGGGAC AGAAATGATA TTATCGTAAA ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTCCTT GTTGGGGGCC CGCGGGCAAG GTACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG 20 TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (iii) TYPE: nucleic acid (iii) TYPE: nucleic acid (iii) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA 40 (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (ii) LENGTH: 222 base pairs (iii) TYPE: nucleic acid (iii) SEQUENCE CHARACTERISTICS: (iii) SEQUENCE CHARACTERISTICS: (iiii) SEQUENCE CHARACTERISTICS: (iiii) SEQUENCE CHARACTERISTICS: (iiiiiii) TYPE: nucleic acid (iiiiiiii) TYPE: nucleic acid (iiiiiiii) TYPE: nucleic acid (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	5	(A) LENGTH: 285 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CAGCAGGCCA CCAAAATTGT GGTCCGAGAT GTTCATATAA AACTTTATAT AATTCATCAG TTCCTAACAT TTACACCCTC CATTTTAGAG GGAGTGGGAC AGAAATGATA TTATCGTAAA ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTCACTT GTTGGGGGCC CGCGGGCAAG GTACAACATGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG 20 TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGA ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	10	(will appropriate the second second	
TTCCTAACAT TTACACCCTC CATTTTAGAG GAGTGGGAC AGAAATGATA TTATCGTAAA ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTChCTT GTTGGGGGCC CGCGGGCAAG GThACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear		(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 4644:	
ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTCHCTT GTTGGGGGCC CGCGGGCAAG GTHACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG 20 TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		CAGCAGGCCA CCAAAATTGT GGTCCGAGAT GTTCATATAA AACTTTATAT AATTCATCAG	6
GTTGGGGGCC CGCGGGCAAG GTNACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG 20 TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	15	TTCCTAACAT TTACACCCTC CATTTTAGAG GGAGTGGGAC AGAAATGATA TTATCGTAAA	12
TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG CGCTTGTHTG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN TACGAACGTG TTAAAACAGT ATGGAAGACTG GACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		ATTTATTTCG TCGTCCCACC CCAACTTGCA TGTCTGTAGA AATGGGGATC CAATTCTTT	. 18
TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG (2) INFORMATION FOR SEQ ID NO: 4645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACAGT ATGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN 1 ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		GTTGGGGGCC CGCGGGCAAG GTnACTAGAA TGAAAAAAGC CTGTTACAAG CGATTTTCGG	24
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG CGCTTGTTTG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	20	TTCAGTCCAC TACTGGCAAT ATAACTTGTA GAGCTAGGAC ATTGG	28
(A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG GCTATTATG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		(2) INFORMATION FOR SEQ ID NO: 4645:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645: GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG TACGAACGTG TTAAAACACT TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	25	(A) LENGTH: 206 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG 35 CGCTTGTnTG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	30		
CGCTTGTnTG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGN TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4645:	
TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		GCTATTACTC TGCTATCAAT GTACCTAAAG CTACCGATGA TTTCCGAGAC ATAGACCGTG	61
ATTTAGATGG TGGCTTTTGA TAAACA (2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	35	CGCTTGTnTG GGGGTTCAAC TGGAAACTTG GTCCATTCCA ATTATGGGAT GCAATGGGGn	12
(2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA		TACGAACGTG TTAAAACAGT ATGGAAGACG AACTTGGAGA CTTACCACAA TGGGTTAGTG	180
(2) INFORMATION FOR SEQ ID NO: 4646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	,	ATTTAGATGG TGGCTTTTGA TAAACA	206
(A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646: ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	40	(2) INFORMATION FOR SEQ ID NO: 4646:	
ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	45	(A) LENGTH: 222 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA			
	50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646:	
CTTACGGATC ATGATGATTT CACACTTGAT AACGGATACT TCGAGATGAT ACATCAGACA 1		ACAGTTACCG ATACAACTGA AGATGATAAC GATGCAGATG GTGGCGACGT TGACGTCACA	60
		CTTACGGATC ATGATGATTT CACACTTGAT AACGGATACT TCGAGATGAT ACATCAGACA	120

	Cngacagtga ttcagattca gacagcgact cagattcnga ta	222
	(2) INFORMATION FOR SEQ ID NO: 4647:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4647:	
15	GTACTATTCG TGTGTGACAA TGTTCTTCCA GCATTTGCTT AATGAATGCT TTTTCTTCGT	60
	TTAATCTTTG TAAACGAAAG CGTATCTAGT TGATTATTTT CAACAAAAGC nTCTACATCA	120
	GnCGGGATAA CGTAAGCAAT ACCACCACTC ATACCTTGAC CGAAGTTCTT ACCTACATCA	180
20	CCGAAATTAA TGACAGTCCA	200
	(2) INFORMATION FOR SEQ ID NO: 4648:	·
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4648:	
	CCACCATTAA TTTAATACCT ATTTGGGGGC TTAGCTCAGC TGGGAGAGCG CCTGCTTTGC	60
35	ACGCAGGANG TCAGCGGTTC GATCCCGCTA GTCTCCACCA TTATTTGTAC ATTGAAAACT	120
	AGATAAGTAA GTAAAATATA GATTTTACCA AGCAAAACCG AGTGAATANA GAGTTTTAAA	180
	TAAGCTTGGA ATTCATTAAG A	201
10	(2) INFORMATION FOR SEQ ID NO: 4649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4649:	
	AGTAAATACA GATGGAATAA ATCTTTTAAG GCTTATAAAC GCTCATCTGn CATTGTAGCA	60
	ATTCATGCTT TCAAAAGACG ATATACTACG ACACTCCTAC GAACTTGTCC AAGGATTACG	120

	AAAGTCTGTG AGTAAGGGTG TATGGAAAGT GGTNAAAT	218
	(2) INFORMATION FOR SEQ ID NO: 4650:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4650:	
15	GTGGCGGTGC GACTGTCAGA AGCACGTTAA ATTAATGAAA GATACAGTAG GTGCTGATGT	60
	AGAAGTAAAA GCCATCAGGT GGCGTACGTA ATTTAGAAGA TTTCAATAAA ATGGTTGAAG	. 120
	CAAGTGCGAC ACGTATTGGT GCGAGCGCAG GTGTTCAAAT TATGCAAGGT TTAGAAGCAG	1,80
20	ATTCHGATTA CTAATATHTA TG	202
	(2) INFORMATION FOR SEQ ID NO: 4651:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4651:	
	AGCGGCGGAC GGGTGAGTAA CACGTGGATA ACCTACCTAT AAAACTGGNA TAACTTCnGG	60
35	AAACCGGAGC TAATACCGGA TAATATTTTA AACCGCATGG TTCAAAAGTA AAAGACGGTC	120
	TTGCTGTCAC TTATAGATGG ATCCGCGCTG CATTAGCTAG TTGGTAAGGT AACGGCTTAC	180
	CAAGGCAACG ATGCATAGCC GACCTGAGA	209
40 .	(2) INFORMATION FOR SEQ ID NO: 4652:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4652:	
30	TGAAGATGCA GGTTACCCGC GACAGGACGG AAAGACCCCG TGGAGCTTTA CTGTAGCCTG	60
	ATATTGAAAT TCGGCACAGC TTGTACAGGN TAGGTAGGAG CCTTTGAAAC GTGGAGCGCT	120
. <i>55</i>		

,	CCACTTATCG TGGTTGGAGA CA	.202
•	(2) INFORMATION FOR SEQ ID NO: 4653:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4653:	
15	CCGTGCGACC CCTTTGGTCC CAAACCAAGT GCTCTACCAA GCTGAGCTAC GTTCCCGGTA	60
	TAATTAACGC GCCCGATAGG AGTCGAACCC ATAACCTCTT GATCCGTAGT CAAACGCTCT	120
	ATCCAATTGA GCTACGGGCG CATATGTTTT TATTGAAAAT GGTGCCGAGG ACCGGAATCG	180
20	AACCGGTACG TGATCACTCA ACnGn	205
	(2) INFORMATION FOR SEQ ID NO: 4654:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4654:	
	AGACGAAACG TTGTTGTTGC GAAGATAAAT CGCACAGCGA TTGAGCCTAT CTGCTGCACC	60
35	ATTAACTGGT GAAGTAACAC CATTATCAGA AGTGCCTGAT CAAGTGTTCA GCGAAAAAAT	120
	GATGGTGACG GTATCGCTAT CAAACCTTCA CAAGGTGAAG TTCGTGCACC ATTCAACGGT	180
	AAAGTACCAA TGATTTCCCA ACCAAACATG CCATTGGTCC TGTATCAGAT AGTGGTTAGn	240
40	CTATTAATCC ACACGGGTTA GANG	264
	(2) INFORMATION FOR SEQ ID NO: 4655:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4655:	
	GACGATTACA TATCATCGCT AATAACTTAG CATTAAAACC GCTTGATGCG CCACCACAAG	60
	·	

	AACACAACGA ACTGGGNACA TGCTTCGGTT AAATCCATCA ATTTCAACGC TTGTNACGCG	180
	AAATCAGTTT GCTCTTGGCT GCAGTAAATC G	211
5	(2) INFORMATION FOR SEQ ID NO: 4656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4656:	
	TTTACATITA TCGGTTTAGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC ATCTTTCTTT	60
	GTGTTTGCTT TTATTTTGAC GTTTTAGACA TAAAAAAAGA GACCTTGCGG TCTCAATGCG	120
20	GCTCATCGCA TCCACTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTCGACT	180
	ACCATCGACG CTAAGGNGCT TAACTGNTGG GT	212
	(2) INFORMATION FOR SEQ ID NO: 4657:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4657:	
35	TGGGTTCGAA nTCCACTTAG GACCCACCAT TAACTTAATA CCTATTTGGG GGCTTAGCTC	60
	AGCTGGGNAG AGCGCCTGCT TTGCACGCAG AGGTCAGCGG TTCGATCCCG CTATCTCCAC	120
	CATTATTTGT ACATTGAAAA CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC	180
40	CGAGTGAATA AAGAGTTTTA	200
	(2) INFORMATION FOR SEQ ID NO: 4658:	
45 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 185 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	e e e
50 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4658:	
	TACAGTATAT CGGGAAGACA GGATTCGAAC CTGCGACCCC TTGGTCCCAA ACCAAGTGCT	60
ee		

	CTCTTGATCC GTAGTCAAAC GCTCTATCCA ATTGAGCTAC GGGCGCATAT GTTTTTATTG	180
	AAAAn	185
5	(2) INFORMATION FOR SEQ ID NO: 4659:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4659:	
	AAGTGTTAGG GGGTTTCCGC CCCTTAGTGC TGCCAGCTAA CGCATTAAGC ACTCCGCCTG	60
	GGGAGTACGA CCGCAAGTGT ATAACTCAAA GGAATTGACG GGGACCCNCA CAAGGTTGGA	120
20	GCATGTGGTT TAATTCGAAN CAACGCGCAG TAACCTTACC AAATCTTGAC ATCCTTTGAC	180
	AACTCTAGAG ATAGAGCCTT CCCCTTCG	208
	(2) INFORMATION FOR SEQ ID NO: 4660:	
<i>25</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4660:	
35	ACGTCGCGAG AACGCAATTA GCTGAAAAAG ATTACAACAT TAGAACAAGA TTTAAAGTCA	60
	CATTTAGTGA ACATCAAAGG CCGAATAACA TCATAAATTA CGATTAGATA TAACAAAAGA	120
	GCTTGGGACA TAAGTCCTAA AGTCTTAGGC AAGTAAAAAA GTGATTTCTA TTATTTATTT	180
40	GATAGAAATC ACTTTTTGAT ATGTATTTnT ATGTACAGCT CGTTGAGCnC TATTTTCCTT	240
	ATATTAGTGC CATAATACAA ACCTAGCTCT TGTTTAACTT TATTATTCCG AACTGACATC	300
45	GGTGAACCCA ATAGCCTCAT AAGCAAACAG CTTACATCAT TTTCTTGAnT GGTTTTCGTT	360
	CTGTC .	365
	(2) INFORMATION FOR SEQ ID NO: 4661:	٠
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
EE		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4661:	
	AAAGTATTTC TTTATGTTGG GGGGCACCCC ACTTTGnCAT TGTCTGTAGA AATTGGGAAT	60
5	CCAATTCTCC THATGTTGGG GCCCCGCAGT TCAACTACTG CCAATATAGT GTTGTAGTGT	120
	CTAAGACATA AAAGTTCATC TCAGTCACAA TTACTTTATA GCCTATCCAT CATCTTTTCT	180
	ACATGAAATT TTTCCAAGTG ATATATTTT	209
10	(2) INFORMATION FOR SEQ ID NO: 4662:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4662:	
	TTATGGCACT TAAAACCAGC GATGACGATT GCAGTATCAC ATGGTATCTT CAACATAACA	60
	AATACTTTGA TTCAATTACC ATTTGTAGCA GGTTTAGCAT GGATTGTTAC AAAGCTTGTC	120
25	CCAGGTAAAG ATATTGCTGA TGACTATAAA CCTCAGCACT TAAACCAAGG TCTGTTATCA	. 180
	CGCACCTGGT GTTTGCATAC CAGGAACTCC AAAAGGATTA CCAAATGTnG GGGCAGAnTG	240
30	GCCTAA	246
	(2) INFORMATION FOR SEQ ID NO: 4663:	
3 <i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4663:	
	AATGGTGTAT TATGAGTAGT AATAATTAGC AAAGAGGTAA ATTAAGTGAT GTCGCGTCAT	60
45	TTAAGGAAGC GATTCACAAT CGAGAATCAC AAAGTACAAC TGGTATCGGC GAAGGTATmG	120
•0	CCATTCCACA TGCCAAAGTG GCCGCAGTTA AGTCACCAGC TATTGCGTTT GGTAAATCTA	180
	AAGCAGGCGT AGATTATCAA AGRITTTTGGT ATGCAACCAG CACACT	226
50	(2) INFORMATION FOR SEQ ID NO: 4664:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4664:	
5	TTCCGTCTCG GCACCATTTT AGCGCCGTAG CTCAATTGGA TAGAGCGTTT GACTACGGAT	60
	CAAGAGGTAT GGGTTCGACT CCTATCGGGC GCGCATTTTT AAATTAATTG AATAACGGGA	120
	GTAGCTCAGC TTGGTAGAGC ACTTGGTTTG GGACAAGGGC GCAGGTTCGA ATCCTGTCTC	180
10	CCGATTACTT CTAAATCCAT TTATGGGGCT ACTCACTGGG nACGCCTCTT nCAC	234
	(2) INFORMATION FOR SEQ ID NO: 4665:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 196 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4665:	
	GTACATCTAA AATCATCCAT GAAGGTTTGT TACCTGAATT ACGGAATGAT TCAACAACTT	60
25	CTAAACGTTT AATTNACCAG TAAGTCTTTG CCAAGTAGCT GATTCCAACT CATCGCGTAC	120
	AATTTAAGTC TTCGTCAAGA TCAATCCTCT TCAAGTAAAT CTTTAATAAC CTTCTGCACC	180
30	CATTTTGCA CGAATT	196
	(2) INFORMATION FOR SEQ ID NO: 4666:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4666:	
	CCGCCGAACA ACTACTTTGT TTGTTGATTC TCTCCACCTG TTTCAGTAGT TCAGATTTCT	60
45	TAGATTGTGG TTTTTTAGTT GGTGCCATGC TTTAACCTTT TCATTGATTT CAATAACAGG	120
4 5	TGTTACTACT TACCTGTTCC ACGGTTTAGA AGGCTTTTAG GTTCTTCTTG GCAGTGGTAn	180
	GGTTTACCAG TTCAGCGGTA CCGCGGTGTT GGnCGTGTTG GATTTC	226
50	(2) INFORMATION FOR SEQ ID NO: 4667:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4667:	
5	GTTCTGAATA GGGCGTTTAG TATTTGGTCG TAGCCGANAA CCGGTGATCT ACCCTTGGTC	60
	AGGTTGAAGT TCAGGTAACA CTGGAATGGG AGGACCGAAC CGACTTACGT TGAAAAGTGA	120
10	GCGGATGAAC TGAGGGTAGC GGAGAAATTC CAATCGAACC TGGAGATAGC TGGTTCTCTC	180
,,	CGAAATA	187
	(2) INFORMATION FOR SEQ ID NO: 4668:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4668:	
	CTAAGTGGAG TTGTCACAAC ATCTTTAAAC GTTCCAGGTA AATAGTCTTT TGCCATTTCT	60
25	GAAAATGCTT TTGCCAACGT TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA	120
	TCAATGGCAG GATTGAAAGG ATGTACATAT GGATGCATAT CCGTTGATGA TAAATCATGn	180
30	TT	182
	(2) INFORMATION FOR SEQ ID NO: 4669:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4669:	
•	AGTTACGTTA AAAGATGAAA ACGACAAAGT TTTAAAAACA GTTACAACAG ATGANAATGG	60
45	TAAATATCAA TTCACTGATT TAAACAATGG AACTTATAAA GTTGAATTCG AGACACCATC	120
	AGGTTATACA CCAACTTCAG TAACTTCTGG GAAATGATAC TGCAAAAAGA TTCTAATGGT	180
	TT	182
50	(2) INFORMATION FOR SEQ ID NO: 4670:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 185 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4670:	
5	GGGGCAAAGT CATTMCATAG ATTAATGGTT CTCCGATACC TAGGAAACCA ACTGGCAATG	-60
	CACCTTTAA AGTATTACGT AATGTTGTGT TGCGTTTACA TCTTACCCAA AGTGCTAATG	120
10	CGGCACCTAC TTGTCCAGCA CCAGCCATCG CTGCAATTGG CAATAAGTAA GTAGCACCTG	180
	ATTGG	185
	(2) INFORMATION FOR SEQ ID NO: 4671:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4671:	
	CTGACGAACG AGAAAAGAGC GCAACGATTT AGTAGAGTAA ATGAGTTAAG CGAGACCGAA	60
25	GAAGAGGAAA GAAGCAAGCG ATTGTCACAA GTCAAGAAAG GTTCTTAGCG TTCGATGGTA	120
	GCCAACTTAC GTTCCGCTAG AGTAGAACGT TGCCAGGCAA AAAAATGGAT GCGATGACCG	180
30	CATTGAGACC GCAAGGnTnT	200
	(2) INFORMATION FOR SEQ ID NO: 4672:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4672:	
	CCCGGGGTAC AGTTATTCCC CAGAGTCAAC GCGGGGGTTG GACTCGATGT CGGTCATCGC	60
45	ATCCTGGGCT GTAGTCGGTC CCAAGGGTTG GGCTGTTCGC CATTAAAGCG NACGNTGCTG	120
	GGTTCAGACG CGTGAGCAGT CGGTCCCTAT CCGTCGTGGG CGTAGGAAAT TTGAGAGGGC	180
	TGTCCTTAGT ACGAGAGGCC GGGATGGCAT ACCTTGGTGT ACCATTGTCG TGCCACGCAT	240
50	AGTGGGTAGT ATGTGTGGAC G	261
	(2) INFORMATION FOR SEQ ID NO: 4673:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4673:	
	ATAGGGCGTT TAGTATTTGG TCGTAnCCAG AAACCAGGTG ATCTACCCTT GGTCAGGTTG	60
10	AAGTTCAGGT AACACTGGAT GGAGGACCGA ACCGACTTAC GTTGAAAAGT GAGCGGATGA	120
	ACTGAGGGTA GCGGAGAAAT TCCAATCAAA CCTGGAGATA GCTGGTTCTC TCCGAAATAG	180
	CGTT	184
15	(2) INFORMATION FOR SEQ ID NO: 4674:	•
.20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4674:	
	CCCAGTCAAA CTGCCCGCCT GACACTGTCT CCCACCACGA TAAGGTCGTG GGTTGAGAAA	60
	GCCAACACA CTAGGGTAGT ATCCCACCAG CGThCTCCAC GTAAGCTAGC GCTCACGTTT	120
30	CAAAGGCTCC TACCTATCCT GTGACAAGnT GTGCCGAATT TCAATATCAG GCTACAGTGA	180
	AAGCTCCACG GGGTTCTTTC CGT	203
	(2) INFORMATION FOR SEQ ID NO: 4675:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) ToToDouT. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4675:	
45	nngTTTGTAA ATAATATGGT GGAGACTAGC GGGATCGAAC CGCTGACCTC CTGCGTGCAA	60
	AGCAGGCGCT CTCCCAGCTG AGCTAAGCCC CCATAATAAT TACAGTATAT CGGGAAGACA	120
	GGATTCGAAC CTGCGACCCC TTGGGTCCCA AACCAAGTGC TCTACCCAGC TGGAGCTTAC	180
50	TTTCCCGGTA TTATTTAACG CGGCCCGATA GGGAGTCGGA ACCCATTAA	229
	(2) INFORMATION FOR SEQ ID NO: 4676:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4676:	
	TCTAAAAATC GCGCACTTAA ACCGCTTATG ACAATCATTA TTACCTCAAT ATGCTTGTCA	60
10	TCACTTGCCT TTATCGTCGT TCATTGGCTA TATAGTTAAT ATGAAAAGAC GCTCAAACAC	120
	TTACAAATTT AGTGTGChGA GCGTCTTATT TTTATACTTT AAAAGTCGTA TTGGTTGT	178
	(2) INFORMATION FOR SEQ ID NO: 4677:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4677:	
25	GCAAGTAAGC ATAATGTGGA GCCGTAGCGA AACAGTCTGA ATAGGGCGTT TAGTATTTGG	60
	TCGTAGACCG GAAACCAGGT GATCTACCCT TGGTCAGGTT GAAGTTCAGG TAACACTGAA	120
•	TGGAAGGACC GAACCGACTT ACGTTGAAAA ATGAGCGGAT GAACTGAAGG TAACCGGAGA	180
30	AAATCCCAAT CGAACCCTGG GAGATAAGCT TGGGnTCTCC TCCCGAAAAT AAGCCTTTTA	240
•	GGGGCTTAAG CCTCCAAAGT GGATGATTTA ATTTGGAAGG TAAAAn	286
	(2) INFORMATION FOR SEQ ID NO: 4678:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) lorologi. linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4678:	
45	CACACGGCTT ATGGTAACAA AAAATTCCTT TGGAGCATTA TGGAGCGGAA GATAGGTTTA	60
	CACCTATACC TCGTTCCGGA AGGANTGTTC TAAAAGTGAA CTACTCCCGC AATATTAAAT	120
	ATGGAGCGGA GATAGGATTT ACACCTATAC CTCATTCCAG AGGATGTATT CTAAGAGTGA	180
50	AATACTCCCC ATATATTAAA TATGGAGCGG AGATAGGATT GACCATACh	229
	(2) INFORMATION FOR SEQ ID NO: 4679:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4679:	
	ATGACTGCTT TTTATTATAC TTTACATTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT	60
10	CGCCAAGCCA TCTTTCTTTG TGTTTGCTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG	120
	ACCTTGCGGT CTCAATGnGG CTCATCGCAT CCACTTTTTG CCTGGCAACG TTC	173
	(2) INFORMATION FOR SEQ ID NO: 4680:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		•
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4680:	`
25	AAAAGTAACA AGAGAAGGAC AAAAAGGTGA GAAGACAATA ACGACGCCAA CAAAAATCCA	60
	TTAACTGGAG AAATTATTAG TAAAGGTGAA TCGAAAGAAG AAATCACAAA AGATCCCATT	120
	AATGNATTAA CAGAATACGG ACCAGAAACG ATAACACCAG GTCATCGAGA CGAGTTTGAT	180
30	ccc	183
	(2) INFORMATION FOR SEQ ID NO: 4681:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4681:	
	CGGTGCTTTC ACTTTCCTAC AGACTGGTTA CTATCGGTCA GAGAGAGATT TAGChTTAGG	60
45	AGATGGTCCT CCCAGATTCC GACGAATTTC ACGTGTTCCG TCGTACTCAG GATCCACTCA	120
	AGAGAGACAA CATTTTCGAC TACAGGATTA NTACCTTCTT TGATTCATCT TTCCAGATGA	180
	TTCGTCTAAT GTCGTCCTTT GTA	. 203
50	(2) INFORMATION FOR SEQ ID NO: 4682:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4682:	
	GGGTCACACC TGTTCCCATG CCGAACACAG AAGTTAAGCT CCTTAGCGTG CGATGGTAGT	60
5	CGAACTTACG TTCCGCTAGA GTAGAACGTT GCCAGGCAAA AAGTGGGATG CGATGGAGCC	120
	GCATTGGAGA CCGCAAGCCT CTGTTCTTTG ATGTCTAAAA CGTnCAAAAT AAAAGCGAAC	180
	ACAAAGA	187
10	(2) INFORMATION FOR SEQ ID NO: 4683:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4683:	
	GGCTACACTG GTCATGATGC TGCTAAACTA CGTGATTATn ATGAAACACA TCATGCTTTG	60
	TCTGGATATG AAATGATTGA CGCAGCAAAG GTGCCATTGC AACAAATGAA GTCAATGCTG	120
?5 .	CGATGGGTAT ATTTGTGCAA CGCCAACAAC TGGTTCCTCC GGTACCATCC CGGTGCAGTT	180
	TTAAATT	187
30	(2) INFORMATION FOR SEQ ID NO: 4684:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	; ·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4684:	
10	AGTGCCAAGG CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA TCCTACAGGA	60
	AACCGTTATT AATCTTGTGA GTGTTCTTTC GAACACTAGC GATTATRTCT TATGAATTCA	120
15	AGCTTATTTA AAACTCTTTA TTCACTCGGT TTTGTAAAAT CTATATTT (2) INFORMATION FOR SEQ ID NO: 4685:	168
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16B base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4685:	
	ACGGGAAGTA GCTCAGCTTG GTAGAGCACT TGGTTTGGGA CCAAGGGGTC GCAGGTTCGA	60
5	ATCCTGTCTT CCCGATTACT TCTTAAATTC CATTTTATGG GGGCTTAGCT CAGCTGGGAG	120
	AGCGCCTGCT TTmCACGCAG GAGGTCAGCG GTTCGATCCC GCTAGTCT	168
	(2) INFORMATION FOR SEQ ID NO: 4686:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4686:	
20	ATGATTCAAG CTTATTTAAA ACTCTTTATT CACTCGGTTT TGCTTGGTAA AATCTATATT	60
	TTACTTACTT ATCTAGTTTT CAATGTACAA TTTCTTTTTA GTCAAGCGCT CGCATACTGC	120
	nttattttca aaaaatcaaa tgctcatita caaaagtaaa ctccgctttt aatt	174
25	(2) INFORMATION FOR SEQ ID NO: 4687:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4687:	
	TGTTGTTGAA TATGAAGAAG ATACAAACCC AGGTGGTGGT CAGGTTACTA CTGAGTCTAA	60
	CTTAGTTGAA TTTGACGAAG AGTCTACAAA ANGTATTGTA ACTGGCGCAG TGAGCGATCA	120
40	TACCACAGTT GAAGGTACGA AAGAATATAC AACTGAAGTA ATCTGA	166
	(2) INFORMATION FOR SEQ ID NO: 4688:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4688:	
	AGAACCTTAC CAAATCTTGA CATCCTTTGA CAACTCTAGA GATAGAGCCT TCCCCTTCGG	60

	GCAACGAGCG CAACCCTTAA GCTATTGCCA TCATTAAGTT GGGCATCTAA TTGACTGCCG	180
	GTGACAAAC	189
5	(2) INFORMATION FOR SEQ ID NO: 4689:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4689:	
	TAACCACTCC TCTTAACCTT CCAGCACCGG GCAGGCGTCA CCCCTATACA TCACCTTACG	60
	GTTTAGCAGA GACCTGTGTT TTTTGATAAC AGTCGCTTng GGCTATTCAC TGCGGCTCTT	120
20	CTGGGCGTTA ACCCTAAGAN ACCCTTCTCC CGAAGTACGG GGGCATTTTG CGAGTCCTAA	180
٠.	CGAGGTCGTC GTCACTTAGA TTCTCATCTT GATACTGTGT GGTTGCG	227
25 ·	(2) INFORMATION FOR SEQ ID NO: 4690:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4690:	
35	AGATAATGCA CCATCAACTA ATGGATATTT ATGTCCAGTT GGGGGCCAGA AATCATAAAC	60
	GTCTTCAGTG TAAGCAACAG CATCTTCATT TnGCAGCCAA AATGCTTGGA TTATGTGCAA	120
	TAACCATCGC AACTGCGCCA CACCTTGTGT TGGCTCGCCG CCTGAAGTGG GGTG	174
40	(2) INFORMATION FOR SEQ ID NO: 4691:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4691:	
	TTTTTTTTTA AAAAAAGGGA AGGGAAAANA AAAAGGGAAA AAAATTTAAC CCAAGGGTTT	60
	TTAAAGGGGG CCCAATTTTT CCCAAAAAAA AAACCCTTTG GGTTAAATTT TTTTTAAAAA	120
	· ·	

	GTTAAATTTT TTTAAAAAGG GTTCCCTTTT AAATTTTGGG AAAAACCCCC TTTTTTTTT	240
	TTAAGGGAAT TTAAAAAATT TAAGGCCCTC CCCTAAATTA AAATTAAAGG TGGGAAAAAA	300
5	AAAATTAATT AAAnAACCCA TITITTTTTT TTAATTTTTT AACCCAAAGG GGGTAATTTG	360
	GCC	363
10	(2) INFORMATION FOR SEQ ID NO: 4692:	
15.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4692:	
20	TAGTGTCAAT TTTATTGATA TTTGCAATTA AACTGAAATT TAATTTTTCG GATGTATTTT	. 60
•	ntttacttaa agtaaaatag aacacgattt tgatgtctgg gaatagtgga aatgataaaa	, 120
	ACTACTAATG ATTGATTAAG TAGTGGTTCT TAACATTAGC CTCAGCTAAT TGTTACTTAA	180
25	AAATAGGAAT ACATGAGTAA AACTCAnTGG	210
	(2) INFORMATION FOR SEQ ID NO: 4693:	,
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4693:	
	ATAGTAGTAA AGTATTTTCT TCCAAACATT TATTTTGATT AAGTCTTCAT CATTAGTATT	60
40	CTCAGCTCCA CATGCACCAT CTTCCACCTC AACCTATTAA CCTCATCATC TTTAGGATCT	120
	TATAACCAAT TGGAAATCTC ATCTTGAGGN NGCTTCATCT TAGATGCTTT CACACTTATC	180
45	CCTCCACACA TAGCTACCCA GCTATCCGT (2) INFORMATION FOR SEQ ID NO: 4694:	209
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	GCACATTAAC CHAAGCACCA GGCCATATAG CAATTGTTGA TACAGTATTT AAATATTTAG	60
,	CATGTGACGG AATAGTTACA TATGTATTCA CTAAGGCCAT AATGACAAAT CCATTAAAAA	120
5	GTTGGATGCT TATTCGACCC TGCTAGATGA TCTGATGAAC GGAACGCATA TTAAATAAGT	180
	ACGTGGTTAT GGATCAGTAA GATACTCTAC CAGTTACCAG nG	222
10	(2) INFORMATION FOR SEQ ID NO: 4695:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4695:	
20	TCGTTCTCAA TAGAATGATT TAAATCTTCG ATTTCTTTAT CTAAATGACT ACCAATTAAA	60
	TCTATTCTT CTATTGTTAA ATCGCTATCT CCATCTTCTT TTATCTCTGG TATTATnTTT	120
	TCTTCAACTA AGTCACGATA TAATGTTTTT GAATTTTCG	159
25 • • •	(2) INFORMATION FOR SEQ ID NO: 4696:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4696:	
	AATATGGTAG TTTTTAACTT ATCTATTAAG GTACAATTGA CCAAATCGAT AAAACAAATA	,60
	ATACGTATCG TCAGACAATT TATGTCAATC CAAGTGGAGA TAACGTTATT GCGCCGGTTT	120
40	TAACAGGTAA TTTAAAACCA AATACGGATA GTAnTGCATT A	161
	(2) INFORMATION FOR SEQ ID NO: 4697:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4697:	
	CCAAACTCAA TATGGCTTTA TTGGCACAGG GAACAGATAT GGAAGGTTTT ATTTATGGnT	60

3057

· *55*

	ATATGGGATC AACACACAAA GCCGGACGCA GTGAATATTA CGCAAAATGA	170
	(2) INFORMATION FOR SEQ ID NO: 4698:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 161 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4698:	
15	CCACGGCTAA CTACTGCCAG CAGCCGCGTA ATACGTAGTG GCAAGCGTTA TCCGGAATTA	60
	TTGGGCGTAA ACGCGCGTAG GNGTTTTTTA AGTCTGATGT GAAACCCACG GTCAACCGGA	120
	GGGTCATTGG AAACTGGAAA CTTGAGTCAG AAGAGGAAGT G	161
20	(2) INFORMATION FOR SEQ ID NO: 4699:	
·.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4699:	
	TAAATCTTCA TCAATATGAT CTAACCAATA TTGATAAAAC CTTGATGTGT TTCGTGTCAA	60
	TGACATACCA TATCGACTAG GTACCTTTTT AGAATGTTGA TTAATCACAA CAAATATCAT	120
35	GGGCAAGGTC ATCTTGCAAA ATGGATTCGA TTCAAGTGGG AGGGNCGATG ATGGACGTGC	180
	TGCATGCACT GATGACCCTT TTTGCCCATT CTGGCAAATC CCACCATGAA ATGACTGACG	240
	CGGACGCn	248
40	(2) INFORMATION FOR SEQ ID NO: 4700:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 175 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4700:	
	CCCGACGAAG CGAACGTTTG GCACTGTCTC AACGAGAGAC TCGGTGAAAT CATAGTACCT	60
	GTGAAGATGC AGGTTACCCG CGACAGGACG GAAAGACCCC GTGGAGCTTT ACTGTAGCCT	120

	(2) INFORMATION FOR SEQ ID NO: 4701:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4701:	
	TACAGGGTAG TGAGATTTCG AAACAATATG GAGAAGCAGG ACTTCCTGGA AAATACAATT	60
15	AATGTTTATA CGAATGGTCA TGCTGGTCAA AGTTCTTGCA GGCATATGCA CCGAAAGCTT	120
	AATGATTCAT CATACTGGAG ATGCGAATGA CTATGTTGGG TAAAGGATTT ATCTGGT	177
	(2) INFORMATION FOR SEQ ID NO: 4702:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4702:	
30	CGATTGGATT GCACGTCTAA GCAGTAAGGC TGAGTATTAG GCAAATCCGG TACTCGTTAA	60
	GGCTGAGCTG TGATGGGGAG AAGACATTGT GTCTTCGAGT CGTTGATTTC ACACTGCCGA	120
-	GAAAAGnCTC TAGATAGAAA ATAGGTGCCC GTACCG	156
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4703:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4703:	
45	CTTGAAAAAG ATGGTTATTC TGTTGAAGTA ATTGACTTAC GTACTGTTCA ACCAATCGAT	60
	GTTGACACAA TTGTAGCTTC AGTTGAAAAA ACTGGTCGTG CAGTnGTCAG CAAGACGCAC	120
50	AACGTCAAGC TGGTGTTGGT GCAGCAGTTG TAGCTGAATT AAGTGA	166
	(2) INFORMATION FOR SEQ ID NO: 4704:	
	(i) SEQUENCE CHARACTERISTICS:	•

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4704:	
	GCGGTGTCTT AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGNCT CGAACCTACG	60
10	ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT	120
	GGCAACGTTC TACTCTAGCG GAACGTAAGT TCG	153
	(2) INFORMATION FOR SEQ ID NO: 4705:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4705:	
	AGGTAGAGCA CTGTTTGGAC GAGGGGCCCC TCTCGGGTTA CCGAATTCAA ACAAACTCCG	. 60
25	AATGCCAATT AATTTAACTT GGGAAGTCAG ACACATGGGT GATAAGGTCC GTATTCGAAA	120
	nggaaacagc ccagaccacc agctaaggtc ccaaaatata tgt	163
30	(2) INFORMATION FOR SEQ ID NO: 4706:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4706:	
	TAAGGTTGGG ATTGTTTGTG GGCTCGTTGC CACCCATTGT ACGGCACTCA TCAnTTCAAG	60
	CCACCAGCTA CAGTATATCT CCTTGACCAG CCATAATTTG ATTGGCTGCA GTCGCGATGG	120
45	TTTGTAATCC TGATGAGCAG TAGCGATTCA TGTTTGACCn GTACCCGTCA GATATCCGCA	180
	GCAATGCAAT GTTGTGCAAG TTT	203
	(2) INFORMATION FOR SEQ ID NO: 4707:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4707:	
	CGGGTGAGAA TCCGTCCACC GATTGACTAA GGTTTCCAGA GGAGGCTCGT CCGCTCTGGG	60
5	TTAGTCGGGT CCTAAGCTGA GGCGCAGnGT AGGCGATGGA ATAACAGGTT GATATTCCTG	120
•	TACCACCTAT AATCGTTTTA ATCGATGGGG GGC	153
	(2) INFORMATION FOR SEQ ID NO: 4708:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
15	(D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4708:	
20	DCTATAATGA ATAAATAATT TAGAAATATG CTTCCGATTG TTCGATGCTT TAATTCAGTT	60
	AGAAGCATCA TAGAATGCAT GATTACTGTT GTAAAGATAC GTAATGTTTT GTATTGACTG	120
	TATGTCTTTG GATAGAGTTA CAAACTTATT	150
25	(2) INFORMATION FOR SEQ ID NO: 4709:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4709:	`
	AAAATTCGGG TTCTCAAATC ATCGGAACAT AACAAAACAA	60
	TIGTCACTTA ACTTCTTGTT TTTCCGATGA CAGCTTCTAT TNAGAGAATG TCATGATTAT	120
40	TTTATATTCA CTTCAATGTT ATCAGTATTA GTGCCA	156
	(2) INFORMATION FOR SEQ ID NO: 4710:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4710:	•
	GTTGATATTC CTGTACCACC TATAATCGTT TAATCGATGG GGGGGACGCA TAGGATAGGC	60

	TCGTTAAGGC TGAGCTGTGA TGGGGAGAA	149
	(2) INFORMATION FOR SEQ ID NO: 4711:	•
<i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) Topologi: Tilleat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4711:	
15	TTGACTTCAA TACCATGGGC CAGGTACHCT TTAAATGTTG TTGTCTCAGT TAATATTAAT	60
	TGGCTTTTCT TTTGCATAAT TGACAATGGC TTCTGCCAAT GGGTGTTCAG AATCTTTTTC	120
	AGCAGTAGCA AGTAGTTGGT AGCGTTTGAT TGGTCACCAG	160
20	(2) INFORMATION FOR SEQ ID NO: 4712:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) TOPOLOGI: Timear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4712:	
	ATAGTGAACC AGTACCGTGA GGACNAGGTG AAAAGCACCC CGGAACGACG TGAAATAGAA	60
	CCTGAAACCG TGTGCTTACA AGTAGTCAGA GCCCGTTAAT GGGTGATGGC GTGCCTTTTG	120
<i>35</i>	TAGAATGAAC CGGCGAGTTA CGATTTGATG C	151
	(2) INFORMATION FOR SEQ ID NO: 4713:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4713:	
	ACCAGTTGAT CTACCCTTGG TCAGGTTGAA GTTCAGGTAA CACTGAATGG AGGACCGAAC	60
50	CGACTTACGT TGGAAAAGTG AGCGGGATGA ACTGNGGGTA GCGGAGAAAT TCCAATCGAA	120
	CCTGGGAGAT AGCTGGTTCT CTCCG	145
	(2) INFORMATION FOR SEQ ID NO: 4714:	

(A) LENGTH: 151 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4714:	
10	TGTNACGCAG AGATCGCGGG TTCGATTCCC GTCGAGACCG CCATTTAATT TTATAATTAA	60
	TAGCGATGTA CCTATAATAA TGGAGGAATA CCCAAGTCCG GCTGAAGGGA TCGGTCTTGA	120
	AAACCGACAG GCCTTAACGG GCCGCGGGG T	151
15	(2) INFORMATION FOR SEQ ID NO: 4715:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) CROUTINGS DESCRIPTION, GRO ID NO 4715	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4715:	
	TCGTATTGAA TGGCTTCGTT TCCTAGGGTG CCGTCTCAGC CTCGGTCTTC GACTGGCACT	60
	GCTCCCTCAG GAGTCTCGCC ATTAATACTA CGTATTAACG TGTAATTTTA CTTTGNAATA	120
30	CTTTAAAAAA ATAAGACACT TTGCCAACTT G	151
	(2) INFORMATION FOR SEQ ID NO: 4716:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4716:	
	GCTGTCATCG GAAAAACAAG AAGTTAAGTG ACAAGGGTTT ACATGTTGCT TAGCTTCTTT	60
45	TATTATGCGT AATGATGTAA AAAGACGAAT ATTCATTTGT TTGTAAAAGT GGCATTTCTA	120
	TGTCTTAAAA GTGACGAAAC TTCACnCTGT GC	152
	(2) INFORMATION FOR SEQ ID NO: 4717:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	• •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4717:	
•	GGATACTAGT AAAACCATAT TTAGTAAATA CAGATGGANT AAATCTTTTA AGGCTTATAA	60
5	ACGCTCATCT GACATTGTAG AATTCATGCT TTCAAAAGAC GATATACTAC GACACTCCTA	120
	CGAACTTGTC CAAGGATTAC GAAA	144
	(2) INFORMATION FOR SEQ ID NO: 4718:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(b) Torologi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4718:	
20	ATCATAAGGG GCATGATGAT TTACGTCATC CCCACCTTCC TCCGGTTTGT CACCGCAGTC	60
	AACTTAGAGT GCCCAACTNA ATGATGGCAA CTAAGCTTAA GGGTTGCGCT CGTTGCGGGA	120
	CTTAACCCAA CATCTCACGA CACGA	145
25	(2) INFORMATION FOR SEQ ID NO: 4719:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	•
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4719:	
	AAATACCTTT CCACGATCTT CAGCTGGGCG CCTCTGCACT CGCAAACGCA CTTGATGCAT	60
	CAACAACACC ACCAAATAGT CCCTGCAATA ACCTCACAGT ACAAACTGTA ATGGTGTCGT	120
40	ACACHATGCC ATTTAAAAAT AGCATACCGG CAAAGC	156
	(2) INFORMATION FOR SEQ ID NO: 4720:	•
	(i) SEOUENCE CHARACTERISTICS:	
45	(A) LENGTH: 152 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4720:	
	TTAAATCGAG TCTCTTTTAC AGGTCCATAT TTTGTTACGT ATCGACCGGT GGCTAACTAC	60

	TAACTCGGAT CAAATTCGTC TCGATGACCT GG	152
	(2) INFORMATION FOR SEQ ID NO: 4721:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4721:	
15.	CACTAGTTCA AGTTCAAGTG GCGACGATTG GTATTTTACA AGAATTTTAT CAACAAGGAT	60
	TTAATTAGCT TAAACGCnGC AATCCCTGTG TTACTAGGGC GGATAACATT GGTACCACGG	120
	TTACAGCTAT CTTAGCTAGT TTAGCC	146
20	(2) INFORMATION FOR SEQ ID NO: 4722:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4722:	
	CCACACCAAT ATTTTGCGCT AAGTANATCG CATTAAACGT TTGTCTTCCG CCATTTGAGC	60
	CACACTGCTC CAGCTCATAG CGCTATATCG CAGGGAATAA TCATTCCGCC ACCACAACCC	120
35	TAACATTACC CAGCCATACA GCCATACCAG GGCCAC	156
	(2) INFORMATION FOR SEQ ID NO: 4723:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) TOPOLOGI: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4723:	
	ACGGTCTTGC TGTCACTTAT AGATGGATCC GCGCTGCATT AGCTAGTTGG TAAGGTAACn	60
50	GCTTACCAAG GCAACGATGG CATGAGCCGA CCTGGAGAGG GTGGATCGGG CCACACTGGG	120
	AACTGAGACA CGGTCCAGAC TCCTACGGGG AGGCAGCAGT A	161
	(2) INFORMATION FOR SEQ ID NO: 4724:	
<i>55</i>		

5	(A) LENGTH: 165 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4724:	-
10	CAGAAAGCTC ACGGGGCTTT CGTCTGTCGC GGGTAACCTG CATCTTCACA GGTACTATGA	. 60
	TTTCACCGAG TCTCTCGTTG AGACAGTGCC CAAATCGTTA CGnCTTTCGT GCGGGTCGGA	120
٠.,	ACTTACCCGA CAAGTAATTT CGCTACCTTA GGACCGTTAT AGTTA	165
15	(2) INFORMATION FOR SEQ ID NO: 4725:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4725:	
	GGACGITATA AGTGCTGAAA CATCTAAGCA TGAAGCCCCC CTCAAGATGA NATITCCCAA	60
	CTTCGGTTAT AAGATCCCTC AAAGATGATT AGGTTAATAG GTTCGAGGTG GAAGCATGGT	120
30	GACATGTGGA GCTGGACGAA TACTAATCG	149
	(2) INFORMATION FOR SEQ ID NO: 4726:	٠
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4726:	
	TTGAATTTTT GAAAAAAAA TGCCGAAATA AAAGATGCCA AGATATCCGC CGGGTAAAAA	60
45	ATTAAGTTTC CGAAAAACCA GGTGTTGGTA CCCATTGCAT CTGGGGTGGC AAAAGCATTT	120
•	GCAGATAAAA TTGTCATCAG TGGTTACGAT GGTGGTACAG GGCTTCACCC AAACGAGTAT	180
	CAGCATGCCG GTGTTCCTGG GAGATGGTTA GCAGAACACA TCAACATAAA CTAATGCTAA	240
50	GANCGGTAAA GTAGACANCG GTAGTATACT GAAAT	275
	(2) INFORMATION FOR SEQ ID NO: 4727:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

	•	•
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4727:	
	ATCAATGAAC AACACATACA GATGGTACTG CGACGCCTAG AGTAACAAAA TAAGTTTTGT	. 60
	AACTCTATCC AAAGACATAC AGTCAATACA AAACATTACG TATCTTTACA ACAGTAATCA	120
10	TGCATTCTAT GATGCTTCTA ACTGAATNA	149
	(2) INFORMATION FOR SEO ID NO: 4728:	*47
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4728:	
25	GCACGTTATT CCATTATCTT AATGGTTATC TTATCCTCAA CTAAATTGGA GGAATCACTA	60
	TGACAATTAA TAAAGAACCG TTCTTGGCGC AGCACAATGG GCGCTCACTG GCAGACTTTT	120
	GTGATGCTGA CTTAAAGTAA ACTATTAGAT ATTGnGTG	158
30	(2) INFORMATION FOR SEQ ID NO: 4729:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4729:	
	TCATTGACAT CGCTGGAATA GGTGTAAATC CTGCGATTCG ATCTGGACCA TATTTTTTTA	60
	TTGTATACAG TAATTGTGCT GCGATTATCT CTGTAACGTC TTTCCAATTT GAnCGCACGT	120
45	GCCCTCCCAT ACCTCGGG	138
	(2) INFORMATION FOR SEQ ID NO: 4730:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

3067

	TAAAGACTAT ACCATTCTAT CCAATAATAA TTGGATTCGG ATTTGTCTGA ATTCGTAACC	60
	GAGAGGCCCC TCGTCCAAAC AGTGCTCTAn CTCCAATAAT CATCACTTGA GGCTAGCCCT	120
5	AAAGTATTTC GGAGAGAACC AGCTATTTCC AGTTCGATTG GAATTTCTCC GCTACCCTCA	180
	GTTCATC	187
10	(2) INFORMATION FOR SEQ ID NO: 4731:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4731:	
20	CGCATCCTGG GGCTGTAGTC GGTCCCAAGG GTTGGGCTGT TCGCCATTAA AGCGGTACGA	60
	AGCTGGGTTC AGAACGTCGT GAGACAGTTC GGTTCCCTAT CCGTCGTGGG CGTAGGAAAT	120
25	TThAGAGGAG CTGTCCT	137
25	(2) INFORMATION FOR SEQ ID NO: 4732:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4732:	,
	TOGTTOTOAN TAGAATGATT TAAATCTTCG ATTTCTTTAT CTAAATGACT ACCAATTAAA	60
	TCTATTTCTT CTATTGTTAA ATCGCTATCT CCATCTTCTT TTATCTCTGG TATTATTTT	120
40	TCTTCAACTA AGTCACG	137
	(2) INFORMATION FOR SEQ ID NO: 4733:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4733:	
	TCGTTCTCAA TAGAATGATT TAAATCTTCG ATTTCTTTAT CTAAATGACT ACCAATTAAA	60

	TCTTCAACTA AGTCACG	137
	(2) INFORMATION FOR SEQ ID NO: 4734:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4734:	
15	AAAACATAAA TACAAAAATA TAGCTATTAC TATAAAAAAC AGCAGTAAGC ATATTTCCAA	60
	ATTGCAAATT ATCCTACTGC TGTTCTTTTT GGGCAGTGGG NACAGCAAAT GATATTTTCG	120
	ACAAAATTTA TITCGTCGTC CCACCCCAAC TTG	153
20	(2) INFORMATION FOR SEQ ID NO: 4735:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 142 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4735:	
	TAGAAATTAC GGACCCAATT TCTCTATGTT GGGGCCCATC CCCAACTTGC ACATNATTGC	60
	AAGCTGACTT TTCGTCACTT GCTTTGTTGG GGCCCCGCCA ATAAGCGTTG TAGTGCCTAG	120
<i>35</i>	TACTTTGATT GATGTCCAAG TT	142
	(2) INFORMATION FOR SEQ ID NO: 4736:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 137 base pairs (B) TYPE: nucleic acid	
	(B) TYPE: NUCLEIC acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4736:	_
	ATGTTATTCA AAGTAAATTG CTTTGCCTGA TTTTGCAGAC TGATAAATCG CTTCAAGAAT	60
50	TTTTGTAACT ACCATTGCTT GTTCCGGTTT CACAACTGGT TCAGTATCAT TTACAACnGC	120
	ATCAATCCAA GCTTTTG	137
	(2) INFORMATION FOR SEO ID NO: 4737:	

3069

·

5	(A) LENGTH: 144 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4737:	
10	GGTCGTTTAG TATTTGGTCG TACACCGCAA ACCAGGTGCA TCTACCCTTG GTCAGGTTGA	60
	AGTTCAGGTA ACACTGAAAT GGAGGACCGA ACCGACTTAC GTTGAAAANT GAGCGGATGA	120
		144
15	ACTGAGGGTA GCGGAGAAT TCCA	144
, 13	(2) INFORMATION FOR SEQ ID NO: 4738:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4738:	
	GGGTAGCTAT GTGTGGACGG GATAAGTGCT GAAACATCTA AGCATGAACC CCCCTCAAGA	60
	TGAGATTTCC CACTTCGGTT ATAAGATCCT CAAAGATGAT GAGGTTAATA GGTCGAGGTG	120
30	GAACATGGTG ACATGTNATC TGCTTTTCTA ATCATAC	157
	(2) INFORMATION FOR SEQ ID NO: 4739:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4739:	
	GCTTTATGTC TAAAACGTCA AAATAAAAAG CAAACACAAA GAAAAATGGC TTGGCGAAGT	60
	GAAAACGGTT GAATCTGACG AAACGAGAAA AGAACGCAAC GAGTTTAGTA GAGCTAHATG	120
45		145
	AGTAAGTGAG AGCCGAAGAG AGGGA	113
	(2) INFORMATION FOR SEQ ID NO: 4740:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4740:	
	TAGTAGCACC ACCCTTAGAC CTTCTTGATT TGACATCGTT GTTCTTCCTT CCTTCGGTCT	60
5	CGTTACTCAT TTAGCTCTAC TAAACTCGTT GCGTCTTTTC TCGTTTCGTC AGATCAAACG	120
	TTTCACTTCG CCAAGCCATT TTTCTTGTGT TTATTTTATT	
		180
10	GAGACCCACG TTCAACTTGC CHGCACGTTC TACTCTGCGG AHTAGTGGCT ACCA	234
•	(2) INFORMATION FOR SEQ ID NO: 4741:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4741:	
	GCAAGTCTTT TTAAAGGTAA CACTATCATT TATGCAATAC GGCGCATTAC CAGAGTTGCA	60
	TGGTCAAAAT ATATTGTTGT CATTTGAAGA TGGACGTGTA CAAAAATGCG TGTTACGTGA	120
25	TCATGATACT GTCan	. 135
	(2) INFORMATION FOR SEQ ID NO: 4742:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4742:	
	ACCCTGGTAC AGTTGAATTC AGGTAACACT GAATGGAGGA CCGAACCGAC TTACGTTGAA	60
40	AAGTGAGCGG ATGAACTGAG GGTAGCGGAG AAATTCCAAT CGAACCTGGA GADAGCTGGT	120
	TCTCTCCGAA ATAGCTTTAG GGCTA	145
	(2) INFORMATION FOR SEQ ID NO: 4743:	V - +
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 151 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4743:	
	•	

	TGATTATCAT GGGTGCGGGT ATTAACCATT GGTTTAACTC AGATACGATT TATAGTGCAA	120
	TCTTAAACTT AGTTATGGTA TGTGGCGTCA A	151
5	(2) INFORMATION FOR SEQ ID NO: 4744:	•
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4744:	
15		
	TAAAGCTAAA AACACAGCTC ATAATATCAA AAAAGGTGCA GAAGAAATGG TTGAAGCGGC	60
	AGGCGATAAA ATCANAGATG GTGCATCTTG GTTAGGCGAT AAAATCGGCG ATGTGTGGGA	120
20	TTATGTACAA CA	. 132
	(2) INFORMATION FOR SEQ ID NO: 4745:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4745:	
	CGTGCGCTCT AACCAGCTGA GCTATAGGCC CATTAATTTG AATGAACAAA CATTCAAAAC	-60
<i>35</i>	TGAATACAAT ATGTCACGTT ATTCCGCATC TTCTGAAGAA GATGTTCCGn ATATATCCTT	120
	AGAAAGGAGG TG	132
	(2) INFORMATION FOR SEQ ID NO: 4746:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4746:	
	GTGATCCGAC TCAGATAGCG ATCCGACTCA GATAGCGACT CAGATTCAGA CAGCGATTCA	60
50	GATTCAGACA GCGATTCAGA TTCAGATAGC GATTCAGATT CCGACAGTGA CTCAGATTCC	120
	GACANTGACT CGGATTCA	138

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 185 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4747:	
	CATTATIGTA AACTGAACTT ITCGTCACTT GCTGGTGnTT GGGGACCCCA CCAACTTGGC	60
	ACATTATTGG TAAGCTGACT TTTCGTCACT TACTGTGTTG GGGCCCCGCC AACTTGCATT	120
15	GTCTGTAGAA ATTGGGAATC CAATTTCTCT ATGTTGGGGC CCACACCCCA ACTCGACATT	180
	GCCTG	185
	(2) INFORMATION FOR SEQ ID NO: 4748:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 173 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4748:	
	ACCGAATCCC TTCAGACCGG TACTTGGGTA TTCCTCCAAA ATTATATGGA CCTTGACAGT	60
30	ACTCGAACCT GACGTACCGA AACGGTTATG AAGACCGTTA nCTCTAACCA ACTGAGCTAA	120
	AGGATCCTAA ATATAATTTT ACAACTAATA AATAGTGGAC GGTGGAGGGA TCG	173
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4749:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4749:	
45	ACACAAGGAT AAGGCATTGT TGGATGTGGG ATGCTTTAAC TGGGCAAGCG ATTGGTCGTC	60
	CTAAAACAGG TACATATGCC GGCTATCTGA CCTAGTCGGT TTAGATATTG CAGTGTCTGT	- 120
	AATTAAAGGG CATGCAACCA AGTANCTGAG GAAACAACTT ATTTTCATGG TGTCAAAAAT	180
50	TGnTAAATAC GGTGTTTGAC AATTGCGCAC CT	212
	(2) INFORMATION FOR SEO ID NO: 4750:	

TAAGAA TTTATA (2) IN	(A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
TAAGAA TTTATA (2) IN		
TAAGAA TTTATA 15 (2) IN	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4750:	
TTTATA	REGET TITACCAAGC AAAACCGATG AATAAAGAGT TITAAATAAG CTTGAATTCA	60
¹⁵ (2) IN	ATAA TCGCTAGTGT TCGAAAGACn GCAGCAAGAT TAATAACGCG TTTAAATCTT	120
(2) IN	AAAG AAAACGTTTA	140
	FORMATION FOR SEQ ID NO: 4751:	
20	i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4751:	
ATTCGT	CAGC TCCACATGTC ACCATGCTTC CACCTCGAAC CTATTAACCT CATCATCTTT	. 60
GAGGGA	TCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGTTCAT GCTAGATGCT	120
30 TCAGAC	TATC CCGTCCACAC ATGTAACCAG nATGCGTGGA CGCATGGAAC AGGGATGTCA	180
TCCG		184
(2) IN 35	FORMATION FOR SEQ ID NO: 4752:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40 [°]	(b) TOPOLOGI: Timear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4752:	
•	TTCC GCAATGGGCG AAACTGTACG GAGCAACGCC GCGTGAGTGA TGAAGGTCTT	60
	TAAA ACTCTGTTAT TAGGGAAGAA CATATGTGTA AGTAACTGTG CACATCTTNA	120
CGGTAC	רדים דרם	
50 (2) IN	CIRC ICC	133
(55	FORMATION FOR SEQ ID NO: 4753:	133

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4753:	
	GTATGCTGTG TGGCTTGTCA TGTTCGGGTT TGGTGGCGGA CCTGATTATT CCTGCGNTAT	60
5	ACGCTATGGC TGGAGCAGTG TGGCCAAATG GCGGAAGACA AACGTTTAAT GCGATCTACT	120
	TGGCGCAAAA TATTGGTGTG GCTGTCGGTG CTGCAATGGG CG	162
10	(2) INFORMATION FOR SEQ ID NO: 4754:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4754:	
20	AATTCGATTC CCTTAGTAGC GGCGACGAAA ACGGGAANGA GCCCAAACCA ACAAGCTTGC	60
·	TTTGGGGGTT TGTAGGACAC TCTATACGGG GTTAACAAAG GACGACATTA GACGAATCAT	120
25	CTTGGGAAAG ATGA	134
	(2) INFORMATION FOR SEQ ID NO: 4755:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4755:	
	AGAGTGCGTA ATAGCTCACT AGTCGAGTGA CACTGCGCCG AAAATGTACC GGGGCTAAAC	60
40	ATATTACCGC AAGCTGTGGA TTGTCCTTTG GACATGGCTA GGAGAGCGTT CTAAGGGCGT	120
40	TGAAGCATGn ATCGTAAGG	139
•	(2) INFORMATION FOR SEQ ID NO: 4756:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4756:	

	CGTGAAATGC GCAGAGATAT GGAGGAACAC CAGTGGCCGA AAGCCACTTT CTGGTCTGTA	120
	ACTGGACGCT GGATGTGCCA AACCTGGGGG ATCAAACAGG TTA	163
5	(2) INFORMATION FOR SEQ ID NO: 4757:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4757:	·
15		60
	CATGAAACTA GATAAGTAGT AAATATAGAT TTTACCAAGC AAAACCGAGT GAATAAAGAG	60
00	TTTTAAATAA GCTTGAATTC ATAAGAAATA ATCGCTAGTG TTCGAAAGAC ATCACANGAT	120
20	TAATACCGCG TTTAATCTTT TATAAAGGAC CGTAACTTCA	160
	(2) INFORMATION FOR SEQ ID NO: 4758:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 177 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4758:	
•	TACATGGGTT TATTGTTGAA GATGACGAAA TTGTAGAAAT TTAATATTCT AAAAAGGTTG	60
35 .	GGGACATAAA TCCCCCTAAA AAAACCAGCA GTAAGATAAT TTTCAATTAG AAAATATCTT	120
	ACTGCTGTTC TCTATTTATA CCANATTACT TTCGTAATTG TTAAAATTTT AAAAGGA	177
	(2) INFORMATION FOR SEQ ID NO: 4759:	•
40.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4759:	
50	CGGTGTGTAC AAGACCCGGG AACGTATTCA CCGTAGCATG CTGATCTACG ATTACTAGCG	60
	ATTCCAGCTT CATGTAGTCG AGTTACAGAC TACAATCCGA ACTGAGAACA ACTTATGGG	120
	ATTTGCT	127

5	(A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4760:	
	GGGCCCCTCG TCGGGTTACC GAATTCAGAC AAACTCCGnA ATGCCAATTA ATTTAACTTG	6,0
	GGAGTCAGAA CATGGGTGAT AAGTCCGTGT TCGAAAGGAA ACAGCCCAGA CCACCAGCTA	120
15	AGTCCCAAAT ATATGTTAAT GAAAG	145
	(2) INFORMATION FOR SEQ ID NO: 4761:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4761:	•
	TAAACAAGGC GCGTTGGGCC TATTCACTGC GGCTCTTCTG GGCGTTAACC CTAAAGAGCA	60
30	CCCCTTCTCC CGAAGTTACG GGGTCATTTT GCCGAGTTCC TTAACGAGAT TGCTCGCTCA	120
	CCTTAGAATT CCATCTGACT ACGGTCGTTG CGTACGGCAC TATTTCTTCA AGCTTCCGCA	180
	TTAACACACC AAAACAGCTC CCACCACCAC TAnATCGAnC AACACTAG	228
35	(2) INFORMATION FOR SEQ ID NO: 4762:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 130 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
		,
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4762:	
	TnGCCAAATC TTAGTAGTCG CTTGGTTCGG TTGTGGTGCG ACAGCTGTGA AATCATCACT	60
	ACGITGCICA TCACTCACIG TCTCTCCGCT TCCTTGCGTT GCAACAGCTT GAATTGTATC	120
50	AGCAGGGTTG	130
	(2) INFORMATION FOR SEQ ID NO: 4763:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4763:	
	CAACTCGTAG TCAGGGTCGA AAGACGGGAC TTAGTGATCC GGTGGTTCCG TCATGGGTAG	60
10	GGCCATCGTC TCAACGGTAT AAAAGCTACC CCGGGGATAA CAGGCTTATC ThCCCCAAGA	120
	GTTCACATCG ACGGGGAGGT TTGGCACCTC G	151
`	(2) INFORMATION FOR SEQ ID NO: 4764:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(b) Torolog1. Timed1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4764:	
25	ACCCCAACTT GCATTGnCTG TAGAAATTGG GAATCCAATT TCTCTTTGTT GGGGCCCCGC	60
	CGGCAAGGTT GACTAGAATT GACCAAAAGC TTGTTACAAG CGCATTTTCG TTCAGTCAAC	120
	TACTGCCA	128
30	(2) INFORMATION FOR SEQ ID NO: 4765:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4765:	
	AAȚACAGCCC CAGAGCGATG AGCCGACATC GAGGTGCCAA ACCTCCCCGT CGATGTGAAC	. 60
	TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG CGGATGGCCC	120
45	TTTCCATGTG GnAAC	135
	(2) INFORMATION FOR SEQ ID NO: 4766:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·

	GATTCTCACC CGTCTTTCGC TACTCACACC GGCATTCTCA CTTCTAAGCG CTCCACATGT	. 60
	CCTTACGATC ATGCTTCAAC GCCCTTAGAA CNCTCTCCTA CCATTGTCCA AAGGACAATC	120
5	CACAGC	126
	(2) INFORMATION FOR SEQ ID NO: 4767:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13C base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4767:	
	TTAATAGTTT TATAAGAGAG GTGTTTGATC TTGAGCTAAC CACHTCATTC GAGTACTGTC	60
20	ATGAAGTAAT TTCTCTATTC TACGACCAGA AAATACAGAT GGGGTATATG CATATAAGAT	120
	GATTTTTAAC	130
	(2) INFORMATION FOR SEQ ID NO: 4768:	1
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 142 base pairs(B) TYPE: nucleic acid	,
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4768:	
<i>35</i>	GTTAACCCTA AAGAGCACCC CTTATACCGA AGTTACGGGG TCATTTTGCC GAGTTCCTTA	60
	ANGCGCGTTC GATCGCTCAC CTTAGGAATT CTCATCTTGA CTACCTGTGT CGGTTTGCGG	120
	TAGGGCACCT ATTTTCCTAT CT	142
40	(2) INFORMATION FOR SEQ ID NO: 4769:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4769:	
	CCTTGGGACC GACTACAGCC CCAGGATGCG ATGAGCCGAC ATCGAGGTGC CAAACCTCCC	60
	CGTCGATGTG AACTCTTGNG TGGAGATAAG CCTGTTATCC CCGGGGTGAG CTTTGTATCC	120

	(2) INFORMATION FOR SEQ ID NO: 4770:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4770:	
	CTAAAAGTTG TATTTTAAAA ATAGTTCTTT AAATTATATA CCCACCACAT TTGGTGGAGA	60
15	ACCGTTAAAC AATGCATAGT TTGCTTAACT TCCAATATTG ACTCATCATT ACAATTGACA	120
	TAGAGCTATT AAGCGTNGCC ATGAG	145
	(2) INFORMATION FOR SEQ ID NO: 4771:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4771:	•
30 .	TCGAGTGACA CTGTCGCCGA AAATGTACCG GGGCTAAACA TATTACCGAA GCTGTGGATT	60
	GTGCCTTTGG AAATGGTGAG GDGAGCGTTC TAAGGGCGTT GGAAGCATGA TCGTAAGGAC	120
	ATGTGGGA	128
35	(2) INFORMATION FOR SEQ ID NO: 4772:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4772:	
	GGGCAGATGT TCCTGCAGTC ATAGTGCCGT CAACTTTAAA TACTGTACGT AATTTGGCTA	60
	ATGCCTCCAT CGTGGnTGTC AGGGCGTATA AATTCATCTT GGGTCAAAGA TATTTGGTGT	120
50	GTACTT	126
	(2) INFORMATION FOR SEQ ID NO: 4773:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 126 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
5		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4773:	
	GTCTTTTCTC GTTTCGTTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT	60
10	GTTTACTTTT TATTTTGACG TTTTAGGATA AAAAAAAGAn ACCTTGCGGT CTCAATGCGG	120
	CTCATC	126
	(2) INFORMATION FOR SEQ ID NO: 4774:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 124 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4774:	
25	ATTTCAATAT CAGGCTACAG TAAAGCTCCA CGGGGTCTTT CCGTCCTGTC GCGGGTAACC	60
	TGCATCTTNA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	120
	TACG	124
30	(2) INFORMATION FOR SEQ ID NO: 4775:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4775:	
40	ACCAAGTGAG CCGGAAACAC CAACGCCACC AACACCAGAA GTACCAAGTG AGCCGGAAAC	. 60
	ACCAACACCA CCGACACCAG AAGTGCCGAG TGANCCAGAA ACTCCAACAC CGCCAACACC	120
45	AGAG	124
	(2) INFORMATION FOR SEQ ID NO: 4776:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CCCGCTAGTC TCCACCATTT ATTTTTTACA CGATGAACAT TGAAAACTNA ATACAATATG	, 60
	CAACGTTAAT TCCAAAAAAC GTAACTATAA GTTACAAACA TTATTTAGTA TTTATGAGCT	120
5	AATCAAACAT CATAA	135
	(2) INFORMATION FOR SEQ ID NO: 4777:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4777:	
	AGTGCAGAAG AGGAAAGTGG AATANCCCCA ACATAGCGGT GAAATGCGCA GAGATATGGA	60
20	GGAACACCAG TGGCGAAGGC GACTTTCTGG TCTGTAACTG GACGCTGGAT GTGCGAAACG	120
	TTGGGGGTTC AAACAGGATT TAGA	144
25	(2) INFORMATION FOR SEQ ID NO: 4778: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4778:	
<i>35</i>	AATTTTTGAT GACGGGTCCC TTCCTAGGGT GCCGTCTCAG CCACCCCAAC CGGCACATTG	60
	TTGTAAGCTG ACTATATGTC nTTCATGTGT TGGGGCCCCT GTCTTCGACT GGCACTGCTC	120
	CCT	123
40	(2) INFORMATION FOR SEQ ID NO: 4779:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 127 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4779:	•
50	GCGCATTAAC TATCGCGATA TTAATCGCTA TTCTATATCG TCACTTTAGA GGATATCCTG	60
	AACAATATAG CTCAGGTATT ACGTTTTCAT CTAAATATTT ATTAAGATTT GCAATCATCC	120

5Š

	(2) INFORMATION FOR SEQ ID NO: 4780:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4780:	÷
	GGTAATATGT TTAGCCCCGG TACATTTTCG GCGCAnTGTC CTCGACTAGT GAGCTATTAC	60
15	GCACTCTTTA AATGATGGCT GCTTCTAAGC CAACATCCTA GTTGTCTGGG CAACGTCACA	120
	TCCTTTT	127
	(2) INFORMATION FOR SEQ ID NO: 4781:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) TopoLogi: Tinear	
	(w/) GDGYDYGD DDGGDTDTOY GDG TD VG 4703	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4781:	
30	ACACNGGGTG AGAATTTGTC GCTATTTGTA AATTGTATCC TGGCTTAAGT TGGCCAAAGT	60
•	GTCTTATTTT TTTAAAGTAT TTAAAAGTAA AATTACATGT TAATACGTAG TATTAAATGG	120
<i>35</i>	CGAGACTCC	129
	(2) INFORMATION FOR SEQ ID NO: 4782:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4782:	
	CTCATTCCCG TTGCATTTTA TCTTCTGCAA CAACAACATT TCGTCTTTAT CGTCTTCCAT	60
	AGTAGTAGGA TTTTCTACTA CTTGACCATT CATAATCTGT TGCATTTCAT GTTTGnTTTG	120
50	GTCAGATTTA GGACCA	136
	(2) INFORMATION FOR SEQ ID NO: 4783:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4783:	
	CATCAACATC GGCGCATTAA AAGATGGACG TTTTGATGAT GTACAACAAG ACATTGAAGC	60
10	AGTGGTTAAA GCTGCGAAAG GTCACACAGT AAAAGTGATT ATTGnGACGG TATTGTTGG	119
	(2) INFORMATION FOR SEQ ID NO: 4784:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4784:	
	ATCACTAATC CATTGTGGTA AGTCTCCAAG TTCGTCTTCC ATACGTGTTT TAACCTGCGT	60
25	NATCCCATTG CATCCCATAA TTGTGAATGG ACCAAGTTTC CAGTTGAACC CCCAGACAAG	120
	CGCACGG	127
	(2) INFORMATION FOR SEQ ID NO: 4785:	
30 35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4785:	
40	ACACCGGCAT GCTGAATACT CGTTTTGGGT GAAGCCCCTG NACCACCATC GTAACCACTG	60
••	ATGACAATTT TATCTGCAAA TGCTTTTGCC ACCCCAGATG CAATGGTACC AACACCTGT	119
	(2) INFORMATION FOR SEQ ID NO: 4786:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4786:	
5 <i>5</i>	CTTTCTAAAC CCGnCACCAC TTTATCGTGG TGGGGAGACA GTGTTCAGGC GGGCCAGTTT	60

	AATCATTCAT AGAGTGT	137
5	(2) INFORMATION FOR SEQ ID NO: 4787:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 119 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4787:	
15	GTTTTTAACA CTGTTACCGT TTTCATCTTT TAATGTTACC GTTACGCCAG ANATACCTTT	60
	TTCATCTTGG TCTTGGATAC CATTTTTATT TGTATCTTCC CAGACATAGT CACCTAAGT	119
	(2) INFORMATION FOR SEQ ID NO: 4788:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
25	(b) Totoboot: Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4788:	
30	CATGCTTCCA CCTCGAACCT ATTAACCTnC ATCATCTTTG AGGGATCTTA TAACCGCAGT	60
	TGGGAAATCT CATCTTGTAG GGGGGCTTCA TGCTTCAGAT GCTTTGCAGC ACTTAGCCCG	120
	GCCACACATA GCTACCCAGC T	141
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4789:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4789:	
	CTGGGTTCAG AACGTCTAAG CAGTTCGGTC CCTATCCGTC GTGGGCGTAA GAAATTTGAG	60
	AGGAGCTGTC CTTAGTACGA GAAGACCGGG ATGGACTACC TCTnGTGTAC CAATTGTCGT	120
50	GCCAACGCAT AGCTGGGTA	139
	(2) INFORMATION FOR SEQ ID NO: 4790:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4790:	
	CATTATTTAG TATTTATGAG CTAATCAAAC ANCATAATTT TTATGGAGAG TTTGATCCTG	60
10	GCTCAGGATG AGCGCTGGCG GCGTGCCTAA TACATGCAAG TCGAGCGAAC GGACGAGATG	120
	CTTGCTTCG	129
	(2) INFORMATION FOR SEQ ID NO: 4791:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4791:	
25	GGGTGCTCTT TAGGGTTAAC GCCCAGAAGA GCCGCAGTGC AATAGGCCCA AGCGACTGTT	60
	TATCAAAAnC ACAGGTCTCT GCTAAACCGT AAGGTGATGT ATAGGGGCTG ACGGCTTCCC	120
	(2) INFORMATION FOR SEQ ID NO: 4792:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4792:	
40	CAAATTCTTT CGCTACTTGA ATGACAACAC TTTGTTTTAC GCCTGAAATG GCTTCTTGCC	. 60
	AAGCAGGTGT ATATTTTGAT TCTGCATCGT CGTATCCTTT TGATCTAATT ATGATCAAAC	120
	CGn	123
45	(2) INFORMATION FOR SEQ ID NO: 4793:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4793:	

	AGTITIGAAT GTTTGTTCAT TCAAATTAAT GGGCCTATAG CTCAGCTGGT TAGAGCGCAC	120
	nCCTGATAAC	130
5	(2) INFORMATION FOR SEQ ID NO: 4794:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4794:	
	CACAGCCACA AGTGATTAAA GGCTTACCCA ATGATCCTGA AATGACGATA GAGTCAGTAT	60
	TAACTCATTT TTCAATAGAT CAGGAAGACT ACCAAGCTTA TGTmGAAGGA CATCT	115
20	(2) INFORMATION FOR SEQ ID NO: 4795:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4795:	
	nttaaaaaa attcccaatt ttttttgggg ggttgggaat ttaaaaattt ggtttttaac	60
	CCAAAGGCCC TTTTCCCAAA AATTTAAATT CCCTTAAAAA TTTAAAATTT GGGAATTTTT	120
<i>35</i>	TTTTnGGCCC AAAATTTTTT CCCTTTTTTT AAAGGCCCCA ATTTTTAATT TAACCCTTAA	180
	AACCCCCAAA CCTTTTTTCC TTTTTTAAAA TTTTTTTAAA TGGA	224
40 .	(2) INFORMATION FOR SEQ ID NO: 4796:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 120 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4796:	
50	TCGCGTACCG CTTTAATGGG CGAACAGCAA GACCTTGGGC ACCGACTACA GCCCCANGAT	60
	GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGAACTCTT GGGGGCAGAT	120
55	(2) INFORMATION FOR SEQ ID NO: 4797:	

5 ;	(A) LENGTH: 125 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4797:	
10	AATTCGATTC CCTTAGTAGC GGCGAGCGAA ACGTGAAGAG CCCCAnACCA ACAAGC	TTGG 60
	CTGTTGTGGT TGTAGGACAC TCTATAACGG GAGTTACAAA GGACCGACAT TAGACGA	ATC 120
	ATCTG	125
15	(2) INFORMATION FOR SEQ ID NO: 4798:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4798:	
	CAAAATAATG ACTCCTACGG GNCTCGAACC CGTGTTACCG CCGTGAAAGG GCGGTGT	CTT 60
	AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGACT CGAACCTACG ACC	113
30	(2) INFORMATION FOR SEQ ID NO: 4799:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4799:	
	CCGGTGGGAG GTAACCTTTT AGGAGCTAGC CGTCGNAGGT GGGACAAATG ATTGGGG	TGA 60
	AGTCGTAACA AGGTAGCCGT ATCGGAAGGT GCGGCTGGAT CACCTCCTTT CTAAGG	116
45	(2) INFORMATION FOR SEQ ID NO: 4800:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
•		
<i>55</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4800:	

	TCAGTGCGAT GATTCGTGAA ATTGAAACGC AAGATTTCGA TATCGANCAC CT	112
	(2) INFORMATION FOR SEQ ID NO: 4801:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
10	(6, 555555)	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4801:	
15	ATAGGATAGG CGACGTGCGA TTGGATTGCA CGTCTAAGCA NTAAGGCTGA GTATTAGGAA	60
•	ATCCGGTACT CGTTAAGGCT GACTGTGATG GGGAGAAACA TTGTGTCTTC	110
	(2) INFORMATION FOR SEQ ID NO: 4802:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4802:	
30	GAACCAAGTT GTTATTGAAA ANTCGTTCGT AAAGTTACGG TACGCCCACC GTGAGTGCTT	60
	TTACTFCTAT ATCAGCACCT ACTGTATCTT TCATTAATTT AACGTCTTCT GCAGTCGCAC	120
	CGCCACCTGC AAAACCTGTT GAATTTTACG AGTCCGCACC GCGCTTTGTA ATCATmCTTA	180
35	CATTCTCTGT CACAACGCCA TACCTTCGGG ACTGACTCAC AGCTCAGCGG AACACAA	237
	(2) INFORMATION FOR SEQ ID NO: 4803:	,
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4803:	
	CTTGAACCCC CAACCTACTG ATTACAAGTC AGTTGCTCTA CCAATTGAGC TAAGCCGGGC	60
50	AATATGTAAG AATAAATGGT GGAGAATTGA CGGGTTCGAA CCGCCGAnCC TCTG	114
	(2) INFORMATION FOR SEQ ID NO: 4804:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4804:	*
	GGATCAAACA GGATTAGATA CCCTGGnTAG TCCACGCCGT TAAACGCATG AGTGCTAAGT	60
10	GTTAGGGGTT TCCGCCCCTT AGTGCTGCAG CTAACGCATT AAGCACTCCG CCT	113
	(2) INFORMATION FOR SEQ ID NO: 4805:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4805:	
	TACCAGGGTA TOTAATOOTG TTTGATOOCC ACGCTTTCGC GCATCAGCGT CNGTTACAGA	60
25	CCAGGAAAGT CGCCTTCGCC ACTGGTGTTC CTCCATATCT CTGCGCAT	108
25	(2) INFORMATION FOR SEQ ID NO: 4806:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i> .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4806:	
	TTTCAGCACT TATCCCGTCC ACACATAGTC TACCCAGGCT ATGCCGTTGG CACGACAACT	60
40	GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA AGGANAGCTC CTCTC	115
	(2) INFORMATION FOR SEQ ID NO: 4807:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 167 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4807:	
	CAGCCACATA ACATAACTAA GTTTAAGATT GAACGATAAA TCGTATCTGA GTTAAACCAA	60
55	TGGTTAATAC CCGCACCCAT GATAATCATT GAACGCCTTC AGTATCGTAG GTTTGGAATT	120

•	(2) INFORMATION FOR SEQ ID NO: 4808:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4808:	
	TGCTTACATC ATTAGCTAAT TGAGCACATG TTGCCATTGC TTGCAGCTAA ATTACCTTGC	60
15	ATCATTGCTA GCTTTTCTTG TATTAACTGA TANTTACTAA TTGGTTTGCC GAATTGCT	118
	(2) INFORMATION FOR SEQ ID NO: 4809:	
20 [*]	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4809:	•
	TTGAGGTAGC CTAAAGCTAT TTCGGAGAGA CCAGCTATCT CCAGGTTCGA TTGGAATTTC	60
30	TCCnATACCT CAGTTCATCC GCTCACTTTC AACGTAAGTC GGTTCGGTCC TCATCAGTGG	120
	TACCTGACTT CAACTGACCA GGGTAGACAC	150
	(2) INFORMATION FOR SEQ ID NO: 4810:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4810:	
	AAGAAGGCGA CGATACATTA TCACCTGGTG TAACAATTAG TACGTGTATA TATCGTTCAn	60
15	AAACGTAAAT TCATGTTGGT GATAAGATGT GTGGTCGACA TGGTACA	107
	(2) INFORMATION FOR SEQ ID NO: 4811:	
5 0	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4811:	
	AGAGTGNATT AGGTTATGAA GGTGGGCAAA ATAGGGTAAC CAGTCATTCG AGGAAGACAC	60
5	AGAAGAAGAC AAACCTAAAT ATGAACCAAG GTGGCATATC GTAGATATCG ATTTCCA	117
	(2) INFORMATION FOR SEQ ID NO: 4812:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4812:	
	CTTTTATCCG TTGAACGATG GCCCTTCCAT GCGGAACCAC CCGATNACTA AATCCGTCTT	60
20	TCGACCCTGC TCGACTTGTA AGTCTCGCAA TCAAGTCCCT TATGCCTTTA CACTCTATGA	120
	ATG	123
	(2) INFORMATION FOR SEQ ID NO: 4813:	
<i>25</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4813:	
35 .	TAACCCGAGA GGGTCCCCTn GTCCAAACAG TGCTCTACCT CCAATATCAT CACTTGAGGC	60
	TAGCCCTAAA GCTATTTCGG AGAGAACCAG CTATCTCCAG GTTCGA	106
	(2) INFORMATION FOR SEQ ID NO: 4814:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4814:	
	CTATTGCTTT AGATGCATAT GAATCATTGA nTGACGCGAT GCCGATGATT TCTGAACACG	60
50	GAATCGCGAA CGTTGGCCAACGA TTGGCGTGGG AATCATCCAG TG	112
4	(2) INFORMATION FOR SEQ ID NO: 4815:	

5	(A) LENGTH: 125 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4815:	
10	ACGTGGAGAG CATGTCCGTT CAAGCAGAGG GGCGGCGGTT GAACCCGTCA TTCTGCACCA	60
	TTTATTCTTA CATATTGCCG GnCTAGCTCA ATTGGTAGAG CAACTGACCT TGTAATCAGT	120
	ACCTT	125
15	(2) INFORMATION FOR SEQ ID NO: 4816:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4816:	
	GTGCTGGCGC AGTTGCGATG GTTATTGCAC ATAATCCAAG CATGGCATTA AATGAAGATG	60
	CTGTTGCTTA CACTGAAGAC GTTTATGnTT TCTGGCGTCC AACT	104
30	(2) INFORMATION FOR SEQ ID NO: 4817:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4817:	
	GTCGGGTAAG TTCCGGCCCG CACGAAAGGC GTAACGATTT GGGCACTGTC TCAACGAGAG	60
	ACTCGGTGAA ATCATAGTAC CTGTGAAGAT GCAGGTTACC CGCGGCAGGG CGGAAAG	117
45	(2) INFORMATION FOR SEQ ID NO: 4818:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(vi) SPOTENCE DESCRIPTION, SEC ID NO. 4818.	

5 * -

	TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGACGCTCT TTTCTCGnTT CGTCAGATTC	120
	A	121
5	(2) INFORMATION FOR SEQ ID NO: 4819:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4819:	
	TCAGTTCGGT ATTGTGAGTC TGCAACTCGA CTGACATGAA GCTGGAATCG CTAGTAATCG	60
	TAGATCAGCA TGCTACGGTG AATACGTTCC CGGGTCTTGT ACACAACGCC CGTNAAGA	118
20	(2) INFORMATION FOR SEQ ID NO: 4820:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4820:	
30	CAAACAGTGC TCTACCTACA ATAATCATCA CTTGAGGCTA GCCCTAAAGC TATTTCGGAG	60
	AGAACCAGCT ATCTmCAGGT TCGATTGGAA TTTCTCCGCT ACCC	104
35	(2) INFORMATION FOR SEQ ID NO: 4821:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 165 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4821:	
45	TCGTAGTGGT TTCCAACCAA GTTTTTATAA GTCAAACGCT CACATACGGC TTCGTTTTCA	60
	TTATTTTAAA TGCTCATTTA CATAGTmAAC TCGCTTTAAA ATAATTTAAC TCATGTCGCT	120
50	AACGTTTTCT TTTATAAAAG TTTAACGGTT TTATCTGTGG TGTCT	165
50	(2) INFORMATION FOR SEQ ID NO: 4822:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs	٠

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4822:	
	GAGTTTGATC CGGGCTCAGG ATGAACGCTG GCGGCGTGCC TAATACATGG CAATCGAGCG	60
10	AACGGACGAG AAGCTTGCTT CHCTGAGGTA GCGGCGGACG GGTGAGTAAC ACG	113
•	(2) INFORMATION FOR SEQ ID NO: 4823:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4823:	•
	CCGGCAACGT TCTACTCTAG CGGAACGTAA GTTGGCTACC ATCGACGCTA AGAACCTTTC	60
25	TTTGAnTTGT GACAATCGCT TGCTTCTTTC CTCTTCTTCG GCTCTC	106
	(2) INFORMATION FOR SEQ ID NO: 4824:	· • •
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4824:	
	TAAACGGCGG CCGTAACTAT AACGGTCCTA AGGTAGCGAA ATTCCTTGTC GGGTAAGTTC	, 60
	CGACCCGCAC GAAAGGCGTA ACGATTTGGG CACTGTCTCA ACTAGAGN	108
40	(2) INFORMATION FOR SEQ ID NO: 4825:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4825:	
	TCTAGTGACC GATAGTGAAC CAGTACCGTG AGGATAAGGT GAAAAGCACC CCGGAAGTAG	60
	NTGTAAATAG AACCTGAAAC CGTGTGCTTA CAAGTAGTCA GAGCCCGGTA ATGGGT	116
55		

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4826:	
.10	ATAATATTGT AAATTAATCC ATTGATGCCA CAAGTGCCGG ACCAGAAATG ATGGTATTTA	60
	ATAATGTGCC ATCTTTATCT TTACGCCAAT CATAATTGGT AAAAATTCCC CCTTCTAATA	120
15	ATCCTTGTAT TGCGTGTCAT ANAGTCTTTG CTCCTTGCAC	160
	(2) INFORMATION FOR SEQ ID NO: 4827:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4827:	
	CGCATTGAGA CCGCAAGCTC TTTTTTTAT GTCTAAAACG TCAAAATAAA AAGTAAACAC	60
30	AAAGAAAATG GTTGGCCnAG TGAAAACGTT TGAATCTGAC GAAACGAGAA AGAGC	115
	(2) INFORMATION FOR SEQ ID NO: 4828:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs	
3 5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4828:	
	CCAAAATAGC CTTCATAATC CAAAAACAGG CTCCTTTGAC TATAGATTTT CGTTTCTGGT	60
45	TCAGAAAGCT TTTGATTAAC TTTAAAGTAT nCCCAATTAT AAT	103
	(2) INFORMATION FOR SEQ ID NO: 4829:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs	
50	(B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGACCGAACT GTCTCACGAC GTTCThAACC CATCTCGCGT ACCGCTTTAA TGGGCGAACA	60
	GCCAACCCTT GGGACCGACT ACAGCCCCAT GATGCGATGA GCCGACATCG A	111
5	(2) INFORMATION FOR SEQ ID NO: 4830:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4830:	
	GTTGTTGGGG CCCCGCCGGC AAGGTTGACT AGAATTGAGA AAAGCTTGTT ACAACGCTAT	60
	TTTCGTTCAG TCAACnACTG CCAATATAAC TTTGTAGAGC ATTGA	105
20	(2) INFORMATION FOR SEQ ID NO: 4831:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		ta see -
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4831:	•
	ACATTGAGTC TTCGAGTCGT TGCATTTCAC ACTGCCGnGA AAAGCCTCTA GATAGAAAAT	60
	AGGTGCCCGT ACCGCAAACC GACACAGGTA GTCAAGATGA GA	102
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4832:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40.	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4832:	-
45.	TTnTAGAATG AACCGGCGAG TTACGATTTG ATGCAAGGTT AAGCAGTAAA TGTGGAGCCG	60
	TAGCGATAAG GAGGTCTGAA TAGGGCGTTT AGTATTTGGT CGTAGCC	107
50	(2) INFORMATION FOR SEQ ID NO: 4833:	
-	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 144 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4833:	•
	TGCAACTAAT GAAAAGTAGA GTTCCGGGGA GTTAAAACCA GTGACTGTTG ACCTTGTTGT	60
5		
	CTCCATTGGA ATGTACTACC TGATGCAAGA TAATTATCAT CACTTTGTTG ACGTGCTThA	120
	TTTTCAGCAT CAATTTGATC AATC	144
0	(2) INFORMATION FOR SEQ ID NO: 4834:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4834:	
0	GGCTCAGATG NACGCTGGCG GCGTGCCTAA TACATGCAAG TCGAGCGAAC GGCACCAGAA	60
	GCTTGCTTCT CTGGATGTTA GCGGCGGACG GGTGTAGTAA CACGTGGG	108
	(2) INFORMATION FOR SEQ ID NO: 4835:	
	(i) SEOUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4835:	
	GACAATGGTA GGnGAGCGTT CTAAGGGCGT TGAAGCATGA TCGTAAGGAC ATGTGGAGCG	60
	CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGCA GT	102
	(2) INFORMATION FOR, SEQ ID NO: 4836:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(3) 1010001. 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4836:	
	TTGCAGACTA CAATCCGGAA CTGGAGTAAC AACTTTATGG GATTTGnCTT GACCTCGCGG	60
	MANAGORGO COMPROCANT MORCONTRACT NOCOCOTORO DICOCONINI	100

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4837:	
	CTCCACGTAA GCTAGCGCTC ACGTTTCAAA GGCTCCTACC TATCCTGGTA CAAGCTGTGC	60
	CGGAATTTCA ATTTGCANGC TACAGTAAAG CTCCACGGGG GTC	103
15	(2) INFORMATION FOR SEQ ID NO: 4838:	
20	. (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4838:	
	TCAAACACTC nCATACTGCT TTATTTTCAT AAACAATATC ACTTTAACCA AAAAATATTT	60
	GAATGTTAAA TAAACATTCA AAACTGAATA CAATATGTCA CGTTATTCCA CATCTTCTGG	120
30	A	121
	(2) INFORMATION FOR SEQ ID NO: 4839:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4839:	
	AAACCATGAA TTAAGAATCC AGAAACAGGA GATGTAGTTA GACCACCGGT CGATTAGCGT	60
45	ACCAAAATAT GGACCTGTAA 'AAGGAGACTC GATTGTAGAn AAAG	104
	(2) INFORMATION FOR SEQ ID NO: 4840:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CCGTGGAGTT TATGTAGCCT GATATTGAAT TCGGCACAGT TGTACAGGTA GGTAGGAGCC	60
5	TTGAAACGTG AGCGCTATTA GTGNAGGCGT GGTGGGTACT ACCCTAGCTG TGTTGGCTTT	120
J	CTAACCC	127
	(2) INFORMATION FOR SEQ ID NO: 4841:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
-15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4841:	. 1
	CATCCCACCC CGGGCAAGGT TGACTAGAAT TGGAAAAAAA CTTGGTTACA ACGTTATTTT	- 60
20	CATTCAGTCA ACTACTGCCA ATATAATATT GNAAACTATA GGACATTTAT TAGTGTTTCA	120
	GTTCT	125
25	(2) INFORMATION FOR SEQ ID NO: 4842:	. '
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4842:	
35	TGGTACGGCA TCTCACCCGT CTTTCGCTAC TCACACCGGC ATTCTCACTT CTANGCGCTC	60
	CACATGATCC TTACGATCAT GACTTCAACG CCCTTAGAAC GCTCGTCC	108
	(2) INFORMATION FOR SEQ ID NO: 4843:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4843:	
50	TAATGAAGGT CTTCGGATCG TAAAACTCTG TTATTAAGAA GGAACATGTG TGTAAGTAGC	60
	TGTGCACATC TTGACGGTAC CTAATCAGAA AGCCACGGCT AACTACGT	108
	(2) INFORMATION FOR SEQ ID NO: 4844:	

5	(A) LENGTH: 117 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
v		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4844:	
10	CGGTCTCAAT GCGGCTCATC GCATCCATTT TTTGACCTGG GCAACGTTCT ACTCTAGCGG	60
	AACCTAAGTT GGGCTACCAT CGACGNCTAA GAACCTTTCT TGACTTGTGT ACAATCG	117
	(2) INFORMATION FOR SEQ ID NO: 4845:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4845:	
25	GACTGTTTAT CAAAAACACA GGTCTCTGCT AAACCGTAAG TGATGTATAG GGGGCTGACG	60
	CCTGnCCGGG TTCTGGTAAG GTTAAGAGGA GTGGTTAGCT TCTGCGAA	108
•	(2) INFORMATION FOR SEQ ID NO: 4846:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4846:	٠
40	CAATATTTGA AGCGATTGGC TTGTCTCATG ATGTGATTGA TCGTTATTTT ACTGGGACAC	60
•••	AGTCTAAGTT ATCTGGTATT TCGATTGATC AAATTnTGCC TGAAAAAGAC GCACAAGT	118
	(2) INFORMATION FOR SEQ ID NO: 4847:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4847:	•
55	GATCCCCGGA CGGAGTGCTT AATGCGTTAC TGACAGCACT AAGGGGGCGGA AACCCCCTAA	60

	(2) INFORMATION FOR SEQ ID NO: 4848:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4848:	
	CTGGCGATTA TGCTCTGTAA CGTGCTTTCC AATTTGGAAC GCACGTGnCC CTGCCCATAC	60
15	CTACGGGACT TGACTTATAT TGTTTGGCTT TGTACGTCAT TTCAACAATA GACGCCCATG	120
	CCAGCAACGC GATTACC	137
	(2) INFORMATION FOR SEQ ID NO: 4849:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4849:	
	GTTTAGGCTC ATCTTAAGAT GTTAGGTCCA CTCGGTTTAC ACCATATTTT TTACTTACCG	60
30	TTTTGGCAGA CGGCACTTGG TGGTACTTTA GAAGTCAAAG ACANGGGGGG GGGGGG	116
	(2) INFORMATION FOR SEQ ID NO: 4850:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4850:	
	TCCTTTCGTG ACGGGCTCGG TAACTTACCC GACAAGGTAA TTTCGCTACC TTAGGNACCG	60
45	TTATAGTTAC GGTCCGCCGT TTACTGGGGC TTCGATTCGT ATCTTCGCAG CTATATCTCA	120
	CTCCT	125
	(2) INFORMATION FOR SEQ ID NO: 4851:	·
50 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: double	٠.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4851:	
5	AAGTTGTATT TTAAAAATAG TTCTTTAAAT TATATACCCA CCACATTTGG TGGGAGAACC	60
	TAAAAAAAG CACTTTCCCC AAAAATGGGA AAGTGC	96
	(2) INFORMATION FOR SEQ ID NO: 4852:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4852:	
00	ACCGTGTGCT TACAAGTAGT CAGAGCCCGT TAATGGGTGA TGGCGTGCCT TTTGTAGNAT	60
20	GAACCGGCGA GTTCACGATT TAGATGCAAG GTTGAAGCAG	100
	(2) INFORMATION FOR SEQ ID NO: 4853:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4853:	
	CCGACAGCGT AGNCGATGGA TAACAGGTTG ATATTCCTGG TACCACCTAT AATCGTTTTA	60
35	ATCGATGGGG GACCCATAGG ATAGCGAACC TGCGATTGGA T	101
	(2) INFORMATION FOR SEQ ID NO: 4854:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4854:	
	GGACATCTCC TAAGGCTAAA TACTCTCTAG TGACCGTAGT GAACCAGACC GTGAGGAAAG	60
50	GTGAAANACC CCGGAGGGGA GTGAATAGAC CTGAAACCGT GT	102
	(2) INFORMATION FOR SEQ ID NO: 4855:	

5	(A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
J		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4855:	
10	ATAACCGCAA TTGGCGAAAT CTCATCTTGA GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA	60
	CTTATCCCGT CCACACATAN CTACCCAGCT ATGCCGTTGG CACG	104
	(2) INFORMATION FOR SEQ ID NO: 4856:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.*
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4856:	
	CTACTGTCTT CATTCTTTCA GTTCTTTTTT ACGGGTCTGT TTTCTAATTT GAGCACATCT	60
25	TCGATTCTTT ATCAAATGAC TACCAATTAA ATCTATTCCT CTnTGGTAAA TCGCTAACTC	120
	CATCTCCTTA ACCCGGTA	138
30	(2) INFORMATION FOR SEQ ID NO: 4857:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4857:	
40	TCAAACGNTT GTCATCTATT AAAGAAGTAG GTCTAGATAT ATCACGTACG TAATGTGTAA	60
	TGGATGGCGC TATTGCTTTA GGTCATCCAT TAGGTGCTAC	100
	(2) INFORMATION FOR SEQ ID NO: 4858:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4858:	

	CCTGTGTGTT TGATAAACAG TCGGTTGGGC CTATTCACTG CGGCTT	106
	(2) INFORMATION FOR SEQ ID NO: 4859:	
5 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4859:	
15	GTAACTCGCC GGTTCATTCT ACAAAAGGGC ACGCCAATCA CCCATTAACG GGCTCCTGAA	60
	CTACTTGTTA AGCAACACGG TTTCCAGGGT TCTATTTCCA CTTCCCCTTT CCGGGGTnGC	120
	TTTTTCAACC TTTTTCCCCC TCCACGGTTA CT	152
20	(2) INFORMATION FOR SEQ ID NO: 4860:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid	
25 	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4860:	
30	GCCCGTACCG CAAACCGACA CAGGTAGTCA AGATGANGAA TTCTAAGGTG AGCGAGCGAA	60
	CTCTCGTTAA GGAACTCGGC AAACTGACCC CGTCACTTCG	100
35	(2) INFORMATION FOR SEQ ID NO: 4861:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4861:	
45	CAGGTAACAC TGAATGGAGG ACCGAACCGA CTTACGTTAA AAAGTAAGCG GATGAACTAA	60
	AGGTAGCHGA GAAATTCCAA TCGAACCTGG AGATAGCTGG TTCT	104
	(2) INFORMATION FOR SEQ ID NO: 4862:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4862:	
	TTACTTATCT AGTTTTCAAT GTACAAATAA TGGTGGAGAC TAGCGGGATC GAACCGCTGA	60
5	CCTCCTGCGT GCAAAGCAGG CGCTCTG	87
	(2) INFORMATION FOR SEQ ID NO: 4863:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4863:	
	ACCGTTTGAT TTCTTATCTA ATTCAAGCTT ATTTAAAACT CTTTATTCAC TCGGTTTTGG	60
20	CTTGGTAAAA TCTATATTTT ACTTACTTAT CTATTTTTCA ATGTA	105
	(2) INFORMATION FOR SEQ. ID NO: 4864:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4864:	
	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	60
3 5	TGCCTTGCTG GATGATGCTA TGATATTGCA CATATCGAAT CAACAGTGGT GCATGAACCT	120
	GCAntggct	129
	(2) INFORMATION FOR SEQ ID NO: 4865:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4865:	
50	AAACCGCAAG GTCAAGCAAA TCCCATAAAG TTGTTCTCAG TTCGGATTGT AGTCTGCAAC	60
	TCGACTACnT GAAGCTGGAA ATCGCTATAA ATCGTAGATC	100

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4866:	
	GTGATAAGAT TAGCAGAAAA TGGATGGTGT TAAGAGAGTT AATTGGTTTG GRGGTATGCT	60
	TATTTTTAAT GGCATTGTGT ACGAGAGCAT TAGAGTTTGT ACTTGTGAGG TTATT	115
15	(2) INFORMATION FOR SEQ ID NO: 4867:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
		• •
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4867:	
25	ACACCACTCC TCATTAACCT TCCAGCACCG CAGCAGGCGT CACCCCTATA CATCACCTTA	· 60
	CGGTTTAGCA GAGACCTGTG TTTTTGATAA	90
30	(2) INFORMATION FOR SEQ ID NO: 4868:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4868:	
	CACGAACGAT TGTCTTGCGT GCGGGGATTA TCTGACACGG TACCGGTCAA ACAGTGAATC	60
	GCTACTGCTC ATCAGGGATT ACAAACC	87
45	(2) INFORMATION FOR SEQ ID NO: 4869:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4869:	•

	CGCTCACCTT AGAATCTATT TACACTGGTG TTGGTAGGCA CTTTTTTCAA GCTTCCGATT	120
	AACACATGAA AAGCTTCCAA AGTACTAGGA CGTTCAATAC ATGTA	165
5	(2) INFORMATION FOR SEQ ID NO: 4870:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4870:	
	AATATCATTT ATAACATTAA GTAATAACTT TTTTTATCTT GTCCATTTTA TTTTTDAACC	60
	AAAATTTGAT TAAAAAACTG CCTGGCAACG TTCTACTCTA GCGGAACTAA G	111
20	(2) INFORMATION FOR SEQ ID NO: 4871:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4871:	
	TAGCAGAGAC CTGTGTTTTT TGATAAACAG TCGCTTGGGC CTATTCACTG CGGCTCTTCT	60
	GGGCGTTAAC CCTAAAGAGC ACCC	84
35	(2) INFORMATION FOR SEQ ID NO: 4872:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4872:	
	ACAGTAAAGC TCCACGGGTC TTTCCGTCCT GTCGCGGGTA ACTGCATCTT CACAGGTACT	60
	ATGATTTCAC CGATCTCTCn ATGAACAGTG CCAAATCGTA C	101
50 .	(2) INFORMATION FOR SEQ ID NO: 4873:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid	
5 <i>5</i>	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4873:	
5	GACAGGCGTA GGCGATGGAT AACAGGTTGT ATTCCTGTAC CACCTATGAT CGTTTTAATC	60
3	GATGGGGGGA AGCATAGGAT AGGCGAA	. 87
	(2) INFORMATION FOR SEQ ID NO: 4874:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	· · · · · · · · · · · · · · · · · · ·	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4874:	
	GGGAGAGCGC CTGCTTTGCA CGCAGGAGGT CAGCGGTTCG ATCCCGCTAG TCTCCACCAT	60
20		
	TATTTGTACA TTGAAAACTA G	81
	(2) INFORMATION FOR SEQ ID NO: 4875:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4875:	
	TATGTTTCGA AATATCTTTA TCACTCTAAA ATGATATACA AGAAATCCAA GAAAAATAAG	60
35	CGAACTGAAT AAATAAAGAT T	81
	(2) INFORMATION FOR SEQ ID NO: 4876:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4876:	
	AACGCGTTAA ATCTTTTAT AAAAGACGTA ACTTCATGTT AACGTTGCTT ATAAAAATGG	60
50	TGGAACATAG ATTAAGTTAT TAAGGGC	87
	(2) INFORMATION FOR SEQ ID NO: 4877:	

•	(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5	(b) TOPOLOGI: Tilledi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4877:	
10	ACAACGGATA AAAGCTACCC CGGGGATAAC AGGCTTATCT CCCCCAAGAG TTCACATCGA	60
	CGGGGAGGTT TGnCCTCAAT GTGGCTCATC GGATCTTGGG G	101
	(2) INFORMATION FOR SEQ ID NO: 4878:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4878:	
25	ATTTATTAGG TGTACAAATG ACCACCGCAT CAACAAGTTT AAACAGCTCG CTAGGTGTCT	60
	CAACTGCATG AGGTATATT	79
	(2) INFORMATION FOR SEQ ID NO: 4879:	·
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4879:	
40	ACATCGTTTC AATGGGTCGC TAACGCTGCT AGGACATTAT AACAGACGTG TACAAAAAGA	60
•	AAATTGGTAT GGTAATTGTG GCA	83
	(2) INFORMATION FOR SEQ ID NO: 4880:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid " (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4880:	
	CTTCATCCTG ATCCAGATCA AACTCTCCAT AAAAATTATG ATGTTTGATT AGCTCATAAA	60

	(2) INFORMATION FOR SEQ ID NO: 4881:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4881:	
	TTGTGCAGTT GCATCGCCAT TGATCAATAA CACGTTGAGC TGCAGTTATT TCAGTTTCTG	60
15	CTTCACGCTT CTTCGCATTA	80
	(2) INFORMATION FOR SEQ ID NO: 4882:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		÷
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4882:	
	TCTGATGTGA AAGCCCACGG CTCAACCGTG GAGGGTCATT GGAAACTGGA AAACTTGAGT	. 60
	GCAGAAGAGG AAAGTGGGTT CCATGT	В6
30	(2) INFORMATION FOR SEQ ID NO: 4883:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4883:	
	TGATCGCATA TCTACGCAAC ATCGGCATAA GTmTGATGAC AAACAAGCTT CCATGACAAA	60
	AGTAATGGAC GAATATCGCA TTTGGGGAAA GTCCTCTAAA AATGCCTTTT GAAGGAACGT	120
45	CGGTTAA	127
	(2) INFORMATION FOR SEQ ID NO: 4884:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4884:	
	AGTAGGAATC GAACCCACAC CAAAGTTTTG GAGACCTCTA TTCTACCTTG AACTATGCCC	60
5	CTATTAAAA TAATAAAT	78
	(2) INFORMATION FOR SEQ ID NO: 4885:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4885:	
	CTCACTATTC GAGTGACACT GCGCCGAAAA TGTACCGGGG CTAAACATAT TACCGAAGCT	60
20	GTGGATTGTC CTTTGGAAAT GGGT	84
	(2) INFORMATION FOR SEQ ID NO: 4886:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4886:	
	GGTATCTGTT CACTCTTCCG GTGGTGCAGT TGCGACCAAC AATGGGTTGG AGATTGGATT	60
35	TCATCCTTCT CAATTAATCG TTGCCGTACT TTTCAAnTGG TACCCCATCC AAAAGGG	117
	(2) INFORMATION FOR SEQ ID NO: 4887:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4887:	
	CGGATCTGGG AGGAAATCTC CTAAGGCTAA ATACTCTCTA GTGACCGATA GTGAACCAGT	60
50	ACCGTGAGGA AAGGTGAAAA	80
	(2) INFORMATION FOR SEQ ID NO: 4888:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	·
<i>55</i>	(A) DENGIR. // Dubc parks	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(wi) SEQUENCE DESCRIPTION SEC ID NO 4000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4888:	•
	AATATGCAAG CACATGGTGA ATATGACGAG GTTGCAACTT CAACGGCGAA GATGATGGAA	60
10	GGCCTTACGT TTGCGTG	77
	(2) INFORMATION FOR SEQ ID NO: 4889:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4889:	
	TCTTCTGGGC GTTAACCCTA AAGAGCACCC CTTCTCCCGA GTTACGGGGT CTTTTGCCGA	60
	GTTCCTTAAC GAGAGT	76
25	(2) INFORMATION FOR SEQ ID NO: 4890:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4890:	
	GTGGGGGCCC CAACATAGGA GCTGATTTTC TGTCAGCTTA CCATNATGTG GCAAGTTGGC	60
	GGGGGCCCCC AAACCAAGGA GCTGGCTTTC TGTCACTTTA CCATTAATGT GGCAAGT	117
40	(2) INFORMATION FOR SEQ ID NO: 4891:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4891:	
	TTAATCCHCC TGCATATGAT GACTTTGTTG AACCGTCATT GCATACTTTC AACATGAATA	60
	CGCTGAACAC CTTCACTTAC TGCATATCTT AGTTCCTCGG TCTGTCTTA	109

5	(A) LENGTH: 88 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4892:	
10	CTCTTAACCT TGCAGCACCG GGCAGGCGTC AGCCCGTATA CATCACCTTA CGGTTTGCAG	. 60
	AGACCGTGTG TTTTTGAGAA ACAGGTGC	88
15	(2) INFORMATION FOR SEQ ID NO: 4893:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4893:	-
25	TAGCGAATGA GATAAACGCG GCGGACTGTA AATCCGCTCC TTCGGGTTCG GCAGTTCGAA	60
	TCTGCCCCCC TCCATTTATT ATTTTMAAAA AAAGCATAGT TC	102
30	(2) INFORMATION FOR SEQ ID NO: 4894: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4894:	·
40	CGAGCGATTC CGACTCAGAC AATGACTCGG AATTCAGATA ACGAATCTGA CTCAGACAGT	60
	GACTCAGATT CCGACAGT	78
	(2) INFORMATION FOR SEQ ID NO: 4895:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4895:	

	TTAGTATTCG CACTCACATG TCACATGCTT CACTCGACCT ATTACCTCAC ACTTGGGGAC	120
	TTATACCGAG INGGAATCTC A .	141
5	(2) INFORMATION FOR SEQ ID NO: 4896:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4896:	
	GTTCGGATTT AATTTGATTC ATTTGTTGCG TAATTTCAGA AGCCATTTTA TGAAAAGAGT	60
	GATTTAATTC ATAAATTTCT	80
20	(2) INFORMATION FOR SEQ ID NO: 4897:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4897: GGTATGGCTG GCGCTTTACG TGCCACATTA GATTATGTCA CTGAGCGTAA GAAGTTCGGC	60
	AAACCAATTA GTA	73
35	(2) INFORMATION FOR SEQ ID NO: 4898:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4898:	
45	GTGCCGAGGA CCGGAATCGA ACCGGTACGG TGATCACTCA CCGCAGGATT TTAAGTCCTG	.60
	TGCGTCTGCC A	71
	(2) INFORMATION FOR SEQ ID NO: 4899:	i
50		

.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4899:	
_	AGCCGCTGGA TTCCACGGTG TAAGCAGTAA GGCTGAGTAT TAGGCAAATC CGGTACTCGT	60
5	TAAGGCTGGA GCTGTmGATG GGGAGAAGAC ATGTGTGCTT ACGTAGTGCG TGGTTT	116
	(2) INFORMATION FOR SEQ ID NO: 4900:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4900:	
	TTCCGGCCCC TGGCGGTnTC CTAGGAGTTC CACGGAACCC CAGGATTTTG TAGGACCCCC	60
20	CGGGCAGAGT CCCCTTCGAC TAAGAAAATC TCACATTCTT CAGGGACTTT TAC	113
	(2) INFORMATION FOR SEQ ID NO: 4901:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
ĢŪ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4901:	
	ACTTAATGGA TTGATTAAGT AGTGGGTTCT TAACATTAGG CCTCAGCTAA TGTGGTACTT	60
35	AAAAATAGGG AATACATG	78
	(2) INFORMATION FOR SEQ ID NO: 4902:	,
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4902:	
	ATGGGACATG GTGTGCCTCC TTGCTATAGT CACCAGACAT ATGAATGTAA TTTATACATT	60
	CAAAACTAGA TAGTAAGTAA AAGT	84
50	(2) INFORMATION FOR SEC ID NO. 4903.	

5	(A) LENGTH: 70 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4903:	
10	TTGTCGGGTA AGTTCCGACC CGCACGAAAG GCGTAACGAT TTTGGCACTG TCTCAACGAG	60
	AGACTCGGTG	70
	(2) INFORMATION FOR SEQ ID NO: 4904:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4904:	
	TAAGTTGGCT ACCATCGACG CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
25	TCCTCTTCTT GGCTCTGCTT CTATTTGCCT CTAATGTGGC TTTTTGTTGT AATAAGTTAT	120
	GCGCTTCGGT GTTATnGTGA AAAAGCGGTC A	151
30	(2) INFORMATION FOR SEQ ID NO: 4905:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4905:	
	TGACTTGTAG GCGCTGGTGG GATACTACCC TAGCTGTGTT GGCTTTCTAA CCCGCACCAC	60
	TTATCGTGGT GGGGA	75
45	(2) INFORMATION FOR SEQ ID NO: 4906:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4906:	

	ACTCAGACAG TGACTCAGAT CAGATAGTGN CTCGGATTCA GCGATTATTC AG	112
	(2) INFORMATION FOR SEQ ID NO: 4907:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4907:	
15	GTAAAAACAC CCCAGCCAGG TCACTTTACG CCTACGCATC GCTTGTACAC GTGCTACTAA	60
	AGGTTTACCA	70
	(2) INFORMATION FOR SEQ ID NO: 4908:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4908:	
	AGAAGATACA AATAAAGNTA AACCCAAATT ATTCAATTTC GGTGGGACAC AATAGTGTTG	60
30		
	ACTITGAAGA AGATACACTI TCCCACCAAG TTAAGTGGGT CCATAATTGA AGGGTCCAAC	120
	C	121
3 5	(2) INFORMATION FOR SEQ ID NO: 4909: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4909:	
40	GGGAACAAAG TGGACAGGTG GTGCATGGTT GTCGTCAACT CGTGTCGTGA GATGTTGGGG	60
	TTAAGTCCCG	70
50	(2) INFORMATION FOR SEQ ID NO: 4910:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
-	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4910:	
	GGACACCCGG AGAACTGAAA CATTTAGTAC CCGGAGAAGA GAAGAAATTC GTTCCCTTAG	60
5	TAGCGGGACG AACGGGAGAG CCCAAACCAC AGCTTGTGTG	100
	(2) INFORMATION FOR SEQ ID NO: 4911:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
15 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4911:	
	'NTCTGTGTTC GGCATGGGAA CAGGTGTGAC CTCCTTGCTA TAGTCACCAG ACAAAATAAC	60
20	TTACTTATTC ATGATACACG CTTAATTAAT AAGGTGCAAT AGTTAATTTT ACACTTTGAT	120
	GTAAACTTTG GCACATCAGC TTTTAGTGTG TTTCG	155
05	(2) INFORMATION FOR SEQ ID NO: 4912:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4912:	
35	CCCGTCACAC CACGAGATTT GTAACACCCG AAAGCCGGTG GAGTGAACCT TTTAGGAGCT	.60
	AGCCGTCGA	69
40 ⁱ	(2) INFORMATION FOR SEQ ID NO: 4913:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4913:	
50	TATGCTCTCC CAGCTGAGCT AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA	60
	GCGGAACGT	69

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4914: CARATGETTE TGTCAATTEG ATCAAATCAA TGTETTEAAC AGATAGATTG CTGAGTGACA	60
	ATACTTCAT	69
15	(2) INFORMATION FOR SEQ ID NO: 4915:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4915:	
	TATTTCGGAG AGAACCAGCT ATTTCCAGGC TCGATTGGAA TTTCTCCGGT ACCCTCAGTT	60
	CATCCGCTCA	70
30	(2) INFORMATION FOR SEQ ID NO: 4916:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4916:	
40	TCACCCATTA ACGGGCTCTA ACTACTTGTA AGCACACGGT TTCAGGTTCT ATTTCACTCC	60
	CCTTCCG	67
	(2) INFORMATION FOR SEQ ID NO: 4917:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4917:	

	TCCACCGTTG ACTAAGGTTC CAGAGAGGCT CGTCCCTCTG GGTAGTCGGG CCTAAGCTGA	120
	GGCGCACGTA GGCGATGATA CAGGTTATAT CCTNACACCT A	161
5	(2) INFORMATION FOR SEQ ID NO: 4918:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Tillear	
	(wi) CECUENCE DESCRIPTION, CDO TD NO. 4010	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4918:	
	GCACGTAGTT AGCCGTTGGC TTTCTGATTA GGTACCGGCA AGATGTGCAC AGTTACTTAC	60
	ACATATGT	68
20	(2) INFORMATION FOR SEQ ID NO: 4919:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4919:	
	GAAAGCAAAT GTCTTCGTTG CAATTCGATC AAATCAATGT CTTCAACAGA TAGATTGCTG	60
	AGTGACAATA CTTCAGGG	78
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4920:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4920:	
45	AATTTCGCTA CCTTAGGGAC CGTTATAGTT ACGGCCGACG TTTACTGGGG CTTCGATTCG	60
	TACTTCGC	68
50	(2) INFORMATION FOR SEQ ID NO: 4921:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 67 base pairs (B) TYPE: nucleic acid	
EE	(C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4921:	
AATCATAGTA CCTGTAAAGA TGCAGGTTAC CCGCAACAAG ACGGAAAGAC CCCGTGGAGC	60
TTTACTG	67
(2) INFORMATION FOR SEQ ID NO: 4922:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4922:	
GGGAGCTGTA ATAAGCTTTG ATCCAGAGAT TTCCGAATGG GGAAACCCAG CATGAGTTAT	60
GTCATG	66
(2) INFORMATION FOR SEQ ID NO: 4923:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4923:	•
GTGGAGGCGC TGGTGGGATA CTACCCTAGC TGTGTTGGCT TTCTAACCCG CAACCACTTA	. 60
TCGTGGGTGG GAG	73
(2) INFORMATION FOR SEQ ID NO: 4924:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4924:	,
GAGGTCAGCG GTTCGATCCC GCTAGTCTCA CCATTTATTT TTTACACGAT GACATGAAAC	. 60
TGATGACATA TGCACCGTAA TTCCAAAAA	89
(2) INFORMATION FOR SEQ ID NO: 4925:	

	(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
J	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4925:	
	AATGGCATCG GAGTTGTCTG AATTCGGTAA CCCGAGAGGC CCCTCGTCCA AACAGGCTCT	
10		6
	ACCTCCAA	6
	(2) INFORMATION FOR SEQ ID NO: 4926:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4926:	•
•	ACGAAAGGCG TAACGATTTG GGCACTGATC TCGACGAGAG ACTCGTGAAA ATCATAGATA	6
25	CCTGTGAAGA TGC	7
	(2) INFORMATION FOR SEQ ID NO: 4927:	•
•	· -	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3 <i>5</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4927:	
	ATTTCTATTA ATTATTTGCA TAGAAATCAG CTTTTTTGAT ATGTATTTA TAATGTACAG	. 6
40	CTCGTTGAG	6
	(2) INFORMATION FOR SEQ ID NO: 4928:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 70 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	, tex 2000000	
50	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4928:	
	AGGTATGTCC ATCCCGGTCC TCTCGTACTA AGGACATCTC CTCTCAAATT TCCTACGCCC	6

	(2) INFORMATION FOR SEQ ID NO: 4929;	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4929:	
	GGCGGGGCCC CAACACAGAG GCTGGCGGAA AGTGCAGCTT ACAATAGTGT GCAAGTTGGG	60
15	GTGGGTCCCG ACACAGAGAA ATT	83
	(2) INFORMATION FOR SEQ ID NO: 4930:	
?0	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4930:	
	CTTGGTAGAG CACTTGGTTT GGGACCAAGG GGTCGCAGTT CGAATCCTGT CTTCCCGATT	60
	ACTCTA	66
30	(2) INFORMATION FOR SEQ ID NO: 4931:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4931:	
	AAGAAGCTTG TTATGCTGCA ACACCAGCAA TTCAAGTAGC TAAAGATTAT TTAGCAACTA	60
	GACCG	65
5	(2) INFORMATION FOR SEQ ID NO: 4932:	
0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	TGCAGAAGAG GAAAGTGGAA TTCCATGTGT AGGGTGAAAT GCGCATAGAT ATGGCAGGAA	60
	CACCAGTGGG CGA	73
5	(2) INFORMATION FOR SEQ ID NO: 4933:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4933:	
	TCGCTATCCG AGTCTGGGTC GCTATCTGAG TCTGAGTCGC TATCTGAGTC TGAAATCGCT	60
	GTCTG	65
20	(2) INFORMATION FOR SEQ ID NO: 4934:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4934: GAGCATGTGG GTTTAATTCG AAGCAACGCA GAGAACCTTG ACCAAATCTT GGACATCCNT	60
	TGACAACTCT GAGAGATTAG AGCCTTGCCC CTTGCGGGGT AACAAATGTA CAGGTTGGTG	120
35	(2) INFORMATION FOR SEQ ID NO: 4935:	
40 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4935:	
45	GAAGGCTCGT CCGCTCTGGG TTAGTCGGGT CCTAAGCTGA GGCCGAGCAG GTACGGCGAT	60
	GGATAACGGT TG	72
50	(2) INFORMATION FOR SEQ ID NO: 4936:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>		•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4936:
CAC	ATCAGCG TCAGTTACAT ACCAGAAAGT CGCCTTCGCC ACTGGTGTTC CTCCATATCT
CTG	c
(2)	INFORMATION FOR SEQ ID NO: 4937:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4937:
ATC	ACCTGGT GTAAACCAAT TAGTACGTGT ATATATCGTT CAAAACCGTA AAATTCATGT
TGG'	T
(2)	INFORMATION FOR SEQ ID NO: 4938:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4938:
CTG	GGTAGCT ATGTGTGGAC GGGATAAGTG CTGAAACATC TAAGCATGAA GCCCCCTCAA
GAT	
(2)	INFORMATION FOR SEQ ID NO: 4939:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4939:
TAGA	AAATCAG CTTTTTTGCA TATGTATTTT ATAATGTACA GCTCGTTGAG CTGCTATTTT
CCT	
(2)	INFORMATION FOR SEQ ID NO: 4940:

	(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5	(b) TOPOBOSI: Tilledi	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4940:	
10	GGTAGTCGAA CTTACGTTCC GCTAGAGTAG AACTTGCCAG CAAATGACAA ATCGGAGAAT	60
	TAGCTCAG	68
	(2) INFORMATION FOR SEQ ID NO: 4941:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4941:	
	CTGAAACATC TTAGTACCCG GAGAAGAGAA AGAAAATTCG ATTCCCTTAG TAGCGGCGAG	60
25	CG .	62
	(2) INFORMATION FOR SEQ ID NO: 4942:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4942:	
	TTAGAACAAT GCAATTGGCG GGGCCCAACA TAGAACTGGC AATAGTTACT TTCAATAATG	60
40	TGCAAGTTGG GGTAGGGCCC AACACAGAA	89
	(2) INFORMATION FOR SEQ ID NO: 4943:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4943: AATGGACAAT ATGTCAACGT TAATTCCAAA AAACGGTAAC TATAATTTAC AAACATTATT	60
•		
<i>55</i> ,		

	(2) INFORMATION FOR SEQ ID NO: 4944:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4944:	
	CCCGTGAAAG ATGATGAGGT TAATAGGTTT GAGGTGGAAG CATGGTGACA TGTGGAGCGT	60
15	GACGAATACG TAATTGA	77
	(2) INFORMATION FOR SEQ ID NO: 4945:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4945:	
	GAATAGGTCG ATGTATTTGG CGACCGAAAC CAGGAATCTA CCCTTGGTCA GGTTGAAGTT	60
30	CAGGTAACAC TGAAT	75
	(2) INFORMATION FOR SEQ ID NO: 4946:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS:,double (D) TOPOLOGY: linear	
	(b) Topobogi. Timear	
40 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4946:	
	ATCAGAAGGC ACACCCGAGA ATGAAACATC TAGTACCCGG AGAAGAGAAA GAAATTCGAT	60
45	TCCCTATAGC GGCGnCGAAA CGGAAGAGCC AACCACAGCT GCTTTGGTTT GACCCATCGG	120
	TACAGCGCTG ACACT	135
•	(2) INFORMATION FOR SEQ ID NO: 4947:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4947:	
	GATTTGGGCT CTTCCATTTC GCTCGCCGCT ACTAAGGGAA TCGAATTTCC TTTCTCTTCC	60
5	T	61
	(2) INFORMATION FOR SEQ ID NO: 4948:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4948:	
	GCTTTTGAGG AATTTAATAT CAATATATAT TCTGTGTATG AAAATATTTT TCATAAAAAT	60
20	TGTTTGAATC	70
	(2) INFORMATION FOR SEQ ID NO: 4949:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4949:	
	CTTCGACCTG ACCAAGGTA GATCACCTGG TTTCGGGTCT ACGACCAAGT ACTAAACGCC	60
3 5	CTATTC	66
	(2) INFORMATION FOR SEQ ID NO: 4950:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4950:	
	GGGTGTTACA AAATATCGTG GTGTGACGGG GCGGTGTGTA CAAGACCCCG GGTACGTTTT	60
50	TCACCGTAGG CATGCTGG	78
	(2) INFORMATION FOR SEQ ID NO: 4951:	
5 <i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4951:	
	CCGCGATAAT AAAAAATAAT GGCGGAGGAA GAGGGATTCG AACCCCCGTG GCCCGTTAAG	60
10	G .	61
	(2) INFORMATION FOR SEQ ID NO: 4952:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4952:	
•	ACTTATCTAG TTTTCAATGT ACAATGTCTT TTTAGTCAGC GCTCGCATAA GCAATATCAC	60
25	TGTAACCA	68
	(2) INFORMATION FOR SEQ ID NO: 4953:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4953:	
	ACTGACGCTG ATGTGCGAAA GCGTGGGGAT CAAACAGGAT TAGATACCCT GGTAGTCCA	59
40	(2) INFORMATION FOR SEQ ID NO: 4954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
45	(A) DENGIH: 60 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4954:	
50	CGTGAGCGCT AGCTGTACGT GGAGGCGCTG GTGGGATACT ACCCTAGCTG TGTTGGCTTT	60
	(2) INFORMATION FOR SEQ ID NO: 4955:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
, 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4955:	
	AAGGCGTAAC GATTTGGGCA CTGTCTCAAC GAGAGACTCG GTGAAATCAT AGTACCTGT	59
10	(2) INFORMATION FOR SEQ ID NO: 4956:	
٠	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
15 .	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4956:	
20	AATAGGTGCC CGTACCGCAA ACCGACACAG GTAGTCAAGA TGAGAATTCT AAGGTGAGC	59
	(2) INFORMATION FOR SEQ ID NO: 4957:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4957:	
	ACACGTTTAG TTCACGCGGG TTTTGCTTGG TAAAATCTAT ATTTTACTTA CTTATCTAGT	60
35	TTTCAATGTA CAATTTC	77
	(2) INFORMATION FOR SEQ ID NO: 4958:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
,,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4958:	
	TGTCGTCAGC TCGTGTCGTG AGATGTTGGG TTAAGTCCCG CAACGAGCGC AACCCTTAA	59
50	(2) INFORMATION FOR SEQ ID NO: 4959:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	-
<i>5</i> 5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4959:	
5	GACTTGAACC CCCAACCTAC TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCG	59
J	(2) INFORMATION FOR SEQ ID NO: 4960:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4960:	
	TATTAACTGG TGACTTAGCG AGATGGACAA CGATGGCGAT ATATTTATTA TTGACCGCA	59
	(2) INFORMATION FOR SEQ ID NO: 4961:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4961:	
30	ATGATTATCA TATTGCCTTA AATATCGCCA CAATTTTAGC GGGTGGTGAT TTACCAAGA	59
	(2) INFORMATION FOR SEQ ID NO: 4962:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4962:	
	CGCCGAAAAT TGTACCGGGG CTAAACATAT TACCGAAGCT GTGGATTGTC CTTTGGACA	59
45	(2) INFORMATION FOR SEQ ID NO: 4963:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTAAGCTTAG TTGCCATCAT TAAGTTGGGC ACTCTAATGT TGACTGCCGG TGACAAACCG	60
_	(2) INFORMATION FOR SEQ ID NO: 4964:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4964:	
15	TAGTTTTGGT ACGGTAACAA ATTTATTTGA AGAAACAATC TCAAATAAAG AATTGTTTG	59
	(2) INFORMATION FOR SEQ ID NO: 4965:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4965:	
	AGTTCGGTCC CTATCCGTCG TGGGGCGTAG GAAATTTTAG AGGAGCTGTC CTTAGTACG	59
30	(2) INFORMATION FOR SEQ ID NO: 4966:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4966:	
40	TACAAAGGC AGCGAAACCG TGAGTCAAAG CAAATCCCAT AAAGTTGTTC TCAGTTCGG	59
	(2) INFORMATION FOR SEQ ID NO: 4967:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4967:	
	CCATTGCAGC ACCGACAGCC ACACCATTTA TTTTTGCGCT ATGTATATCG CATTAAACGT	60

	(2) INFORMATION FOR SEQ ID NO: 4968:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4968:	
,	GCCTCCGTTA CTTTTAGAGG CGACGCCCAG TCAAACTGCC CGCTGACACT GTCTCCCACC	.60
15	(2) INFORMATION FOR SEQ ID NO: 4969:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4969:	
	CAAGGAATTT CGCTACCTTA GGACCGTTAT AGTTACGGCC GCCGTTTACT GGGGCTTCG	59
	(2) INFORMATION FOR SEQ ID NO: 4970:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4970:	
	CATCTGTCAC AGGTACTATG GATTTCACCG GAGTCTCTCG TTGAGACAGT GCCCAAATCG	60
40	TTACG	65
	(2) INFORMATION FOR SEQ ID NO: 4971:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 100 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4971:	•
	CTAGAGTTGG CATACCAGTC CGTCGCTAAG GAACCTTTCT TGACTTGATG ACAATCGACT	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 4972:	
· . 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs	•
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4972:	
	AGACCCCGTG GAGCTTTACT GTAGCCTGCA TATTCGAATT CGGCACAGCT TGTACAGGAT	60
15	AGGTAGG	67
	(2) INFORMATION FOR SEQ ID NO: 4973:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 4973:	
	TGTGTACTTA AAAATATGAA TACATGAGTA AAACTCATGC ATAAGAAATA CTAATTTC	58
30	(2) INFORMATION FOR SEQ ID NO: 4974:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4974:	
	ACCTCCAATA ATCATCACTT GAGGCTAGCC CTAAAGCTAT TTCGGAGAGA ACCAGCTA	58
	(2) INFORMATION FOR SEQ ID NO: 4975:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4975:	
•	GACGCCACAT CCTTTTCCAC TTGGCGTGTG TTTTGGGACC TTGGCTGGTG GTCTGGGCTG	60

	(2) INFORMATION FOR SEQ ID NO: 4976:	
	(i) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(hi) GROUPING PROGRESSIVE CRO. ID NO. 4076	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4976:	
•	TCACTAAGTC CGTCTTTCGA CCCTGACTCG ACTTGTAGGT CTCGCAGTCA AGCTCCCTT	5
15	(2) INFORMATION FOR SEQ ID NO: 4977:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	·	
	· · · · · · · · · · · · · · · · · · ·	
2 <i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4977:	
	TAAGTAAGTA AAATATAGAT TTTACCAAGC AAAACCGAGT GAATAAAGAG TTTTAAAT	58
	(2) INFORMATION FOR SEQ ID NO: 4978:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 58 base pairs	
	(B) 'TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3 <i>5</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4978:	
_	GTGAGGTACG TCCAGAATGG GGATTGGCTA AAAATGCATC ATTTATAATT GGACGACG	56
40	(2) INFORMATION FOR SEQ ID NO: 4979:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid	
45 _~ .	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4979:	
	TCGCTATCTG AATCCGAGGT CGCTATCCGA ATCTGGAGTC GCTATCTGGA GTCTGGAATC	60
	(2) INFORMATION FOR SEQ ID NO: 4980:	

5	(A) DENGIN: So base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4980:	
10	AAGAAGGTAA TAATCCTGTA GTCGAAAATG TTGTCTCTCT TGAGTGGATC CTGAGTAC	58
	(2) INFORMATION FOR SEQ ID NO: 4981:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4981:	
•	GTGGTGTGTT AGGGCACTCT ATACGGGTTA CAAAGTACGA CATTAGACGG ATCATCTGGA	. 60
25	AAGATGAATC AAAGT	75
	(2) INFORMATION FOR SEQ ID NO: 4982:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4982:	,
	GTTTTCATT TTCATTTATA TTTATATTAG TGTTAATCCA ATCATAGATT TATCTATA	58
	(2) INFORMATION FOR SEQ ID NO: 4983:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4983:	
50	TGACAGCTAA CTATTGGCCA GCTTCTATGT TGGGGCCCCG CCAACTTGCA TTGTCTGTAG	60
	A	61
	(2) INFORMATION FOR SEQ ID NO: 4984:	
<i>5</i> 5		

5	(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4984:	
10	GGTGTTTTTA AGTCTGATGT GAAAACCCAC GGCTCAACCG GTAGAGGTCA TTGGAAACTG	60
`	GAAA	64
÷	(2) INFORMATION FOR SEQ ID NO: 4985:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4985:	
25	CAGCATACAA TAATGTGCAA GTTGGTCGGG GCCCCAACAT AGAGAATTTC AAAAGAAAT	59
	(2) INFORMATION FOR SEQ ID NO: 4986:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4986:	
	TGATGAAGGT CTTCGGATCG TAAAACTCTG TTATTAGGGA AGAACATATG TGTAAGT	57
	(2) INFORMATION FOR SEQ ID NO: 4987:	
40 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4987:	
50	AAAGAATTTG CGCAAAACGC TATCGATACT GAAGGGCGTT CAATGATTAT CATGGGT	5 7
	(2) INFORMATION FOR SEQ ID NO: 4988:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4988:	
	TTGTCACAAG TCAAGAAAGG TCTTTAGCGA CGATGGTAGC CAACTTACGT TCCGCTA	57
10	(2) INFORMATION FOR SEQ ID NO: 4989:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
,,,	(D) TOPOLOGY: linear	
•	(w/) GROUPING BEGGETERION GRO ID NO 4000	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4989:	
	TAGGACCGTT ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAG	57
•	(2) INFORMATION FOR SEQ ID NO: 4990:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 61 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Illiadi	
30		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4990:	
	AAAGTCAACG TTAATTCCAA AAAACGTAAC TATAAGTTAC TAACATTATT TAGTATTTAT	60
35	G	61
	(2) INFORMATION FOR SEQ ID NO: 4991:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
. **	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4991:	
	TCCACGGGGT CTTTCCATCC TGTCTCGGGT AACCTGCATC TTCACAGGTA CTATGATTTC	60
50	ACCGA	65
	(2) INFORMATION FOR SEQ ID NO: 4992:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>55</i>	(A) LENGTH: 57 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4992:	
	GTGCGGCTGG ATCACCTCCT TTCTAAGGAT ATATTCGGAA CATCTTCTTC AGAAGAT	57
10	(2) INFORMATION FOR SEQ ID NO: 4993:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
15 .	(D) TOPOLOGY: linear	
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4993:	
	CCAATGCGGC TCATCGCATC CATTTTTTGC CTGGCAACGT TCTACTCTAG CGGAACG	57
	(2) INFORMATION FOR SEQ ID NO: 4994:	•
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4994:	
	CTGGTTTCGG GTCTACGACA AATACTAAAC GCCTATTCAG ACTCGCTTTC GCTACGG	57
35	(2) INFORMATION FOR SEQ ID NO: 4995:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4995:	
	CAAACTCTCG TGGTGTGACG GGCGGTGTGG TACAAGCCCC GGGAACGTAT TCACCGTAGC	60
	ATGCCGGTCT ACG	73
50	(2) INFORMATION FOR SEQ ID NO: 4996:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
5 5	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4996:	
5	ACTAATTTCT ATAGGAAAAG TATTCTTTAT CGTCGTCCCA CCCCAACTCG CACATTATTG	60
	TAAGC	65
	(2) INFORMATION FOR SEQ ID NO: 4997:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4997:	
	ATTGGATTCC CAATTTCTAC AGACAATGCA GTTGGGGTGG GACGTCGAAA TAAATTTT	58
20	(2) INFORMATION FOR SEQ ID NO: 4998:	
2 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4998:	
<i>30</i>	AACTTCAACA GGTTTTGCAG GTGGCGGTGC GACTGCAGGA AGACGTTAAA TTAATG	56
	(2) INFORMATION FOR SEQ ID NO: 4999:	36
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4999:	
45	GGGCAGGCGT CAGCCCTATA CATCACCTTA CGGTTTAGCA GAGACCTGTG TTTTTG	56
45	(2) INFORMATION FOR SEQ ID NO: 5000:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5000:	
	TTAGGACCCG ACTAACCCAG AGCGGACGAG CCTTCCTCTG GAAACCTTAG TCAATC	56
5	(2) INFORMATION FOR SEQ ID NO: 5001:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5001:	
	GACGGGATTC TCACCCGTCT TTCGCTACTC ACACCGGCAT TCTCACTTCT AAGCGC	56
	(2) INFORMATION FOR SEQ ID NO: 5002:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) Toronogi: Timear	
	(all) appropriate programment and the No. 5000	• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5002:	• •
30	CCTGTCGGCC TCAGCTTAGG ACCCGACTAA CCCAGAGCGG ACGAGCCTTC CTCTGG	56
<i>35</i> ·	(2) INFORMATION FOR SEQ ID NO: 5003: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5003:	ć.
	TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCA	56
45	(2) INFORMATION FOR SEQ ID NO: 5004:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i> ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5004:	
33		

	(2) INFORMATION FOR SEQ ID NO: 5005:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5005:	
	GACATAGATT AAGTTATTAA GGGCGCACGG TGGATGCCTT GGCACTAGAA GCCGATG	57
15	(2) INFORMATION FOR SEQ ID NO: 5006:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5006:	
	GGAACCACTA CATAATAAAT CATTAGTGGC TCTTTATCAT TCTGTCCCAC TCCCCTG	57
	(2) INFORMATION FOR SEQ ID NO: 5007:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5007:	
40	CGCTACGTTT TTCCTCAACA TTTAAGAAAA TAAAGAATGC TACAATTACG ATTGCAATCA	60
	AACCAAAGA	69
	(2) INFORMATION FOR SEQ ID NO: 5008:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5008:	
<i>55</i>	AAAAGCTTGT TACAAGCGCT ATTTTCGTTC AGTCAACTAC TGCCAATATA ACTTCGT	57

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGIH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5009:	
	ACATCTTAGT ACCCGGAGAA GAGAAAGAAA ATTCGATTCC CTTAGTAGCG GCGAGC	56
•	(2) INFORMATION FOR SEQ ID NO: 5010:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5010:	
25	GTTTGGACGA GGGGCCCTCT CGGGTTACGA TTCAGACAAA CTCCGATGCA ATTAATTTAC	60
•	TTGGG	65
	(2) INFORMATION FOR SEQ ID NO: 5011:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5011:	
40	TTTACTTGTA TTGGAATAAT TTCATCTTTG AACCGACCAT CACGTTGTGC GTCATA	56
	(2) INFORMATION FOR SEQ ID NO: 5012:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5012:	
	CCTTATACAT CACCTTTACG GTTTTAGCAG AAACCTGTGT TTTTTGATAA ACAGTCGCTT	60
55	(2) INFORMATION FOR SEQ ID NO: 5013:	

	(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
J		,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5013:		
10	GGGCCCAACA CAGAAGCTGG CGAAAAGTCA GCATACAAAA TTGTGCAAGT	TGGCGGGTCC	60
	ACA		63
	(2) INFORMATION FOR SEQ ID NO: 5014:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
20	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5014:		
25	TAGGGTAGTA TCCCACCAGT GGCCTCCACG TAAGCTAGCG CTTCACGTTT	CAAAGGCT	58
٠	(2) INFORMATION FOR SEQ ID NO: 5015:		
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5015:		
	CAACTCCGAT GCAATTAATT TAACTTGGGA nCAGACATGG GTGATAAGGT	CGTGTTCGAA	60
40	GGGAACAGCC AGACACAGCT AAGTCCAGAT ATATGTAAGT GGAAA		105
•	(2) INFORMATION FOR SEQ ID NO: 5016:		
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5016:		
	CAAACGATTT ATTTATATGC TTATTTCTTT ATTTATTATT ATTACAATTA	CALLLI	56
	(2) INFORMATION FOR SEQ ID NO: 5017:		

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5017:	
		•
10	TCTGTAGAAA TTGGGGAATC CAATTTCTCT TGGTTTGGGT CCCATCCCCA ACTTGCACAT	60
	TATTG	. 65
	(2) INFORMATION FOR SEQ ID NO: 5018:	
15 20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5018:	
		5.0
25	GGGGATGGGC CCCAACAAAG AGAAATTGGA TTCCCAATTT CTACAGACAA TGCAAC	56
	(2) INFORMATION FOR SEQ ID NO: 5019:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5019:	
	CGATTGGATT GCACGTCTAA GCAGTAAGGC TGAGTATTAG GCAAATCCGG TACTC	55
40	(2) INFORMATION FOR SEQ ID NO: 5020:	
, ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5020:	
	TACGGCGTTT AGTATTTGGT CGTAGCCGGA AACCAGGTGA TCTACCCTTG GTCAGGTT	. 58
	(2) INFORMATION FOR SEQ ID NO: 5021:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5021:	
	TTGTGCGGGT CCCCGTCAAT TCCTTTGAGT TTCAACCTTG CGGTCGTACT CCCCA	55
10	(2) INFORMATION FOR SEQ ID NO: 5022:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5022:	
	AGAGTTCACA TCGACGGGGA GGTTTGGCAC CTCGATGTCG GCTCATCGCA TCCTG	55
	(2) INFORMATION FOR SEQ ID NO: 5023:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5023:	
	CCTTAGCTGG TGGTCTGGGC TGTTTCCCTT TCGAACACGG ACCTTATCAC CCATGGTC	58
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 5024:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5024:	
	TAAAGGCTAA ACTACCAATG TTTTCAATGG ATTTCCAAAA TGAATCATCT GGGAT	55
	(2) INFORMATION FOR SEQ ID NO: 5025:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5025:	
	TCAAACCGGA GGGGTCATTG GAAACTGGAA AACTTGAGTG CAGAAGAGGA AAGTGGAATT	60
5	CCA ,	63
	(2) INFORMATION FOR SEQ ID NO: 5026:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5026:	
	GCTTGCGTAC CTAAAGAGCA CCCCTTCTCC GAATTACGGG GTCATTTTGC CGAGTTCCTT	60
20	AACG	64
,	(2) INFORMATION FOR SEQ ID NO: 5027:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5027:	•
	AATACATAGC ATATCATAAG GCACACCCGG AGAACTGAAA CATCTTAGTA CCCGGA	56
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 5028:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	·
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5028:	
45	GGGCCCCTCT CGGGTTACCA ATTCAGACAA ACTCCGAATG CCAATTAATT TAACT	55
	(2) INFORMATION FOR SEQ ID NO: 5029:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5029:	
	CGTAACTATA ACGGTCCTAA GGTAGCCGAA ATTCCTTGTC GGGTAAGTTC CGAC	54
5	(2) INFORMATION FOR SEQ ID NO: 5030:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5030:	
	ATCCCCGGGG CCCCAACACA GAGAATTTCG AAAAGAAATT CTACAGGCAA TGCAAGT	57
	(2) INFORMATION FOR SEQ ID NO: 5031:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) TOPOLOGY: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5031:	
30	TGCTTGGTAA AATCTATATT TTACTTACTT ATCTAGTTTT CAATGTACAA TTTC	54
	(2) INFORMATION FOR SEQ ID NO: 5032:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5032:	
	TCCCTATCCG TCGTGGGCGT AGGAAATTTG AGAGGAGCTG TCCTTAGTAC GAGA	54
45	(2) INFORMATION FOR SEQ ID NO: 5033:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	i
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5033:	٠

	(2) INFORMATION FOR SEQ ID NO: 5034:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5034:	
	TATCTGAATC TGAGTCGCTG TCTGAATCTG AATCGCTATC CGAGTCTGAG TCGC	54
15	(2) INFORMATION FOR SEQ ID NO: 5035:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5035:	
	CACCAGCAAT TCAATTAGCT AAAGATTATT TAGCAACTAG ACCGGAATGA AAAA	54
	(2) INFORMATION FOR SEQ ID NO: 5036:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5036:	
	CTACCATCGA CGCTAAGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT GTGA	54
40	(2) INFORMATION FOR SEQ ID NO: 5037:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5037:	
	CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT GGAGCCGTAG CGGAAG	56
55	(2) INFORMATION FOR SEQ ID NO: 5038:	

5	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5038:	
10	GACCGGGATG GACATACCTC TGGTGTACCA GTTTGTCGTG CCAACGCATA AGCT	54
	(2) INFORMATION FOR SEQ ID NO: 5039:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5039:	
	TTTCACCGAG TCTCTCGTTG AGCAGTGCCC AAATCGTTAC GCCTTTCGTG CGGG	54
25	(2) INFORMATION FOR SEQ ID NO: 5040:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5040:	
<i>35</i>	TTATAACACG TATGCTTGGG GAGTGTAATA AGCTTGATCA GAGATTCChA TGGGAACCAG	60
	CATGAGTTAT GTCATTTATC ATATGTGATC ATAGCATATC AAAGG	105
40	(2) INFORMATION FOR SEQ ID NO: 5041:	
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5041:	
50	GGCACCTATT TTCTATCTAG AGGCTTTTCT CGGCAGTGTG GAAATCAACG ACTC	54
	(2) INFORMATION FOR SEQ ID NO: 5042:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>55</i>	(A) LENGTH: 54 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5042:	
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA ACCG	54
10	(2) INFORMATION FOR SEQ ID NO: 5043:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5043:	
20	CGTTCAGTCA ACTACTGCCA ATATAACATC GTAGAGCATA GAACATTGAT TTA	53
	(2) INFORMATION FOR SEQ ID NO: 5044:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5044:	
35	ACTAGAGAGT ATTTAGACTT AGGAGTGGTC CTCCCAGATT CCGACGGATT TCACGTGCT (2) INFORMATION FOR SEQ ID NO: 5045:	59
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 62 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5045:	
	TTTCGTCGTC CCACCCCAAC TTGCACGCTA TTGTGAGCTG ACTTTTCGCC AGCTTCTGTG	60
	TT	62
50	(2) INFORMATION FOR SEQ ID NO: 5046:	
5 5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
-	(C) STRANDEDRESS: COMPTE	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 5046:	•
5	CGTCATCCCC ACCTTCCTCC GGTTTGTCAC CGGCAGTCAA CTTAGAGTGC CCA	53
	(2) INFORMATION FOR SEQ ID NO: 5047:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	/	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5047:	
	TATTTATTAA ACCTAATAAA GATGAATTAG AAGTGATGTT TAATACAACA GTG	53
20	(2) INFORMATION FOR SEQ ID NO: 5048:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5048:	
30 .	CCTCGGCACC ATTTTCAATA AAAACATATG CGCCCGTAGC TCAATTGGAT AGA	53
	(2) INFORMATION FOR SEQ ID NO: 5049:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 10:02001. 11:001	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5049:	
٠	AAATGGCCAA CTTAAGCCAG GATACAATTT ACAAATAGCG ACAAATTCTC AATGTGTTT	59
45	(2) INFORMATION FOR SEQ ID NO: 5050:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	CGAAAGACAC nCACAAGATT AATAACGCGT TTGAGTCTTT TTATAAAGAC GTACTTCATG	60
	TTACGTTGAC TTTAAGATGG TGGAACATAG TTAGTTTTAG GGCCACGGGG G	111
5	(2) INFORMATION FOR SEQ ID NO: 5051:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5051:	
	ACGITGACAT ATTGTCATTC AGTITTCAAT GTTCATTAAT GTTCAATCTC TTT	53
	(2) INFORMATION FOR SEQ ID NO: 5052:	٠
20 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5052:	
<i>3</i> 0	CTGAATTCGG TAACCCGAGA GGGCCCCTCG TCCAAACAGT GCTCTACCTC CAA	53
30	(2) INFORMATION FOR SEQ ID NO: 5053:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5053:	
	TACATAGCAT ATCAGAAGGC ACACCCGGAG AACTGAAACA TCTTAGTACC CGG	53
	(2) INFORMATION FOR SEQ ID NO: 5054:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5054:	

	(2) INFORMATION FOR SEQ ID NO: 5055:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5055:	
	TAGGGCTAGC CTCAAGTGAT GATTATTGGA GGTAGAGCAC TGTTTGGACG AGG	53
15	(2) INFORMATION FOR SEQ ID NO: 5056:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5056:	
25	ACTGCTTTGA AATGTTGTTG TCTCAGTTAA TATTCAATTG CTTTTCTTTT	 60
	CAA	63
30	(2) INFORMATION FOR SEQ ID NO: 5057: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>35</i>	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5057:	
40	CTATGTTGGG GCCCCGCCAA CTTGCATTGT CTGTAGAATT CCTTTTCGAA ATTC	54
. ,	(2) INFORMATION FOR SEQ ID NO: 5058:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	• .
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5058:	
		·
	CTGAATCCGA GTCGCTATCC GAGTCTGAGT CGCTATCTGA GTCTGAATCG CTG	53

5	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10 -	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5059:	
	TTTGGGCTAC ACACGTGCTA CAATGGACAA TACAAAGGGC AGCGAAACCG TGATGTCAA	59
	(2) INFORMATION FOR SEQ ID NO: 5060:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5060:	
	AAATAACTAA TAACATTTAG AGGCTGGGAC ATAAATCCCT AAAAAACAGC AGT	53
25	(2) INFORMATION FOR SEQ ID NO: 5061:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5061:	
	TTAAAGAGTG CGTAATAGCT CACTAATCGA GTGACAATGG CGCCGAAAAT GTACC	55
10	(2) INFORMATION FOR SEQ ID NO: 5062: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5062:	
,	TACCAGGGTA TCTAATCCTG TTTGATCCCC ACGCTTTCGC ACATCAGCGT CA	52
50	(2) INFORMATION FOR SEQ ID NO: 5063:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
_		
3	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5063:	
	TCGCCAAGCC ATTTTCTTT GTGTTTCTTT TTATTTTGAC GTTTTAGACA TA	52
10	(2) INFORMATION FOR SEQ ID NO: 5064:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5064:	
	CTCAAGCTCC CTTGTGCCTT TACACTCTAT GTGTGCTTTC CGACCGTTCT GGGGGGAACT	60
	TTGGAGCGCC TCCGTT	76
25	(2) INFORMATION FOR SEQ ID NO: 5065:	-
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5065: CCACCGCTTG TGCGGGTCCC CGTCAATTCC TTTGAGTCGC AACCTTGCGG TCGT	54
	(2) INFORMATION FOR SEQ ID NO: 5066:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5066:	
÷	TCCCCGGGCT AAACATATTA CCGAAGCTGT GGATTGTCCT TTGGACAATG GTAGG	55
50	(2) INFORMATION FOR SEQ ID NO: 5067:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5067:	
5	GCTCATCGCA TCCACTTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AA	52
·	(2) INFORMATION FOR SEQ ID NO: 5068:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5068:	
	CGGACACCAG AAGTACCAAG CGAGCCGGAA ACACCAACAC CACCGACACC AGACGTACAA	60
	GCGAGCGGAA ACAACAACAA CG	82
20	(2) INFORMATION FOR SEQ ID NO: 5069:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5069:	
	TCCATAACGT GCTGTATCTG TAGCAATAAC TAATACTTTT TCATTCGGTC TA	52
	(2) INFORMATION FOR SEQ ID NO: 5070:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5070:	
45	CGACTCGAAG ACTCAATGTC TTCTCCCCAT CACAGCTCAG CCTTAACGAG TA	52
	(2) INFORMATION FOR SEQ ID NO: 5071:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5071:	
	GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT CGTTTTAATC GA	52
5	(2) INFORMATION FOR SEQ ID NO: 5072:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5072:	
	CACTTCACCA CAGCCGCCAT GGCATGGGCA GTAGGAATCG AACCCACACC AAA	53
	(2) INFORMATION FOR SEQ ID NO: 5073:	
20 ^	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5073:	
	GTCCAGACTC CTACGGGAGG CAGCAGTAGG GAATCTTCCG CAATGGGCGA AA	52
30	(2) INFORMATION FOR SEQ ID NO: 5074:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5074:	٠
	TGTTGGCTTA GAATCAGCCA TCATTTAAAG AGTGCGTAAT AGCTCACTAG TCGC	54
•	(2) INFORMATION FOR SEQ ID NO: 5075:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5075:	

	AAACTTCCCT TTGG	74
	(2) INFORMATION FOR SEQ ID NO: 5076:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5076:	
15	TGAGCTAATC AGACATCATA ATTTTTATGG AGAGTTTGAT CCTGGCTCAA GAT	53
	(2) INFORMATION FOR SEQ ID NO: 5077:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5077:	
	GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC CGCTAGAGTA GA	52
•	(2) INFORMATION FOR SEQ ID NO: 5078:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5078:	•
40	GGGTAAGTTC CGACCCGCAC GAAAGGCGTA ACGATTTGGG CACTGTCTCA AC	52
	(2) INFORMATION FOR SEQ ID NO: 5079:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5079:	
	ATTAATCCAT TGTGCCACAA GTGCCGGACC AGAAATGATG GTATTTAATA AT	52

5	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5080:	
	AATAGCGACG AATCACACCT TCTGCGGCAC CACGGAATAA TACACCATGT GG	52
	(2) INFORMATION FOR SEQ ID NO: 5081:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5081:	
	CTTTCGCTAC TCACACCGGC ATTCTCACTT CTAAGCGCTC CACATGTCCT TA	52
25	(2) INFORMATION FOR SEQ ID NO: 5082:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5082:	
	CAGACAGCGA CTCAGATCAG ATAGCGATCG GACTCAGACA ACGACTCAGA TTCAGA	56
	(2) INFORMATION FOR SEQ ID NO: 5083:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5083:	
50	AGGGTATGAT CCATCCCGGG TCCTCTCGGT ACTAAGGGAC AGCTCCTCTC AAATTTCCTA	60
	CG	62
	(2) INFORMATION FOR SEQ ID NO: 5084:	

5	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5084:	
10	GTGTACCAGT TGTCGTGCCA ACGGCATAGC TGGGTAGCTA TGTGTGGACG AG	52
10	(2) INFORMATION FOR SEQ ID NO: 5085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5085:	
	TTGCTTACGC TTGCTATAGC CAATATATAG ATGTTGGAGG GGGCAGATTC GAATGCGAAC	60
	CCGAGGAGCG GATTAACA	78
2 <u>5</u>	(2) INFORMATION FOR SEQ ID NO: 5086:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5086:	
	ACTGACGCTG ATGTGCGAAG CGTGGGGATC ACACAGGATT AGATACCCTG GT	52
	(2) INFORMATION FOR SEQ ID NO: 5087:	
40 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5087:	
50	AAGTTGTTCT CAGTTCGGAT TGTAGTCTGC AACTCGACTA CATGAAGCTG G	51
	(2) INFORMATION FOR SEQ ID NO: 5088:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5088:	• •	
	AATACTTTAA AAAAATAAGA CACTTTGGCC AACTTAAGCC AGGATACAAT T		51
10 ·	(2) INFORMATION FOR SEQ ID NO: 5089:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
15	(D) TOPOLOGY: linear		
	(with energy and analysis and an area of the second		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5089:		
	AGAACGTAAA TTTAATCCTG ATTTAGCACC AGGGACAGAA AAAGTAACAA G		51
	(2) INFORMATION FOR SEQ ID NO: 5090:		
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		-
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5090:		
	CCGCTACCCT CAGTTCATCC GCTCACTTTT CAACGTAAGT CGGTTCGGTC C		51
35	(2) INFORMATION FOR SEQ ID NO: 5091:		
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·.	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5091:		
•	CATGGGTGAT AAGGTCCGTG TTCGAAAGGG AAACAGCCCA GACCACCAGC T		51
	(2) INFORMATION FOR SEQ ID NO: 5092:		•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5092:	
	TTGTGCGGAT CCCCGTCAAT TCCTTTGAGT TTCAACCTTG CGGTCGTACT CCCCA	55
5	(2) INFORMATION FOR SEQ ID NO: 5093:	
10 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5093:	
	CCGCAAACCG ACACAGGTAG TCAAGATGAG AATTCTAAGG TGAGCGAGCG A	51
	(2) INFORMATION FOR SEQ ID NO: 5094:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
05	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5094:	
30	ACGAATACTA ATCGATCGAA GACTTAATCA AAATAAATGT TTTGCGACAA A (2) INFORMATION FOR SEQ ID NO: 5095:	51
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5095:	
	AATCGTTGTT ACCTTCATTA TACCACTTAC TTGTGGAGTG ATCTTCTTCA AAGTAACACT	60
45	ATTGTGCCAC CGATTGA	77
40	(2) INFORMATION FOR SEQ ID NO: 5096:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTCGTAAGGA CATGTGGAGC GCTTAGAAGT GAGAATGCCG GTGTGAGTAG CG	52
	(2) INFORMATION FOR SEQ ID NO: 5097:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5097:	
15	GGGTCTGTTT TCTAATTTGA GCACAATCTT CGTTCTCAAT AGAATGATTT A	51
	(2) INFORMATION FOR SEQ ID NO: 5098:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5098:	
	CTGTAGAAAT TGGGAATCCA ATTTCTCTAT GTTGGGGCCC ACACCCCAAC T	51
30	(2) INFORMATION FOR SEQ ID NO: 5099:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5	(D) TOPOLOGI: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5099:	٠
40	CTGTGGATTG TCCTTTGGCA TGAGATAGGA GAGCGTTCTA AGGGCGTTGA A	51
	•	-
	(2) INFORMATION FOR SEQ ID NO: 5100:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5100:	
	GGTTCAGAAC GTCGTGAGAC AGTTCGGTCC CTATCCGTCG TGGGCGTAGG A	51

. 5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5101: TGACTGATAC GATCAATGCG CTTGTAACAA GCTTTTTTCA ATTCTAGTCA GGGGCCCCAA	. 60
	CACA	64
	wawa	0,
15	(2) INFORMATION FOR SEQ ID NO: 5102:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5102:	
25	TATTTGCATT TATATTGACG TTTTAAACAT AAAAAAAGAA ACCTTGCGGT CTCAATGG	. 58
	(2) INFORMATION FOR SEQ ID NO: 5103: (i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5103:	
	ATTACCATTT TGGTATACCA CATCGTTATT CAACACATTA TCTTTTACTT	50
40	(2) INFORMATION FOR SEQ ID NO: 5104:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5104:	
	GGACACTGCT CCCTCAGGAG TCTCGCCATT AATACTACGT ATTAACATGT AAT	53
	(2) INFORMATION FOR SEQ ID NO: 5105:	
55		

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5105:	
10	ATTTCTTCTT TTTCTACAAT CGAGTCTCCT TTTACAGGTC CATATTTTGT	50
	(2) INFORMATION FOR SEQ ID NO: 5106:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
,		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5106:	
	TGGTCAAGCG GTTAAGACAC CGCCCTTTCA CGGCGGTAAC ACGGGTTCGA	50
25	(2) INFORMATION FOR SEQ ID NO: 5107:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5107:	
35	TTTTTAGCAG TAATTGCCAC ATCTGTGTGA CGATAATGAT ATGCGACAGT	50
	(2) INFORMATION FOR SEQ ID NO: 5108:	,
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5108:	
	CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGACATAA	50
50	(2) INFORMATION FOR SEQ ID NO: 5109:	
<u>.</u> _	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
5 5	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5109:	
5	AGCCGATGAA GGACGTTACT AACGACGATA TGCTTTGGGG AGCTGTAAGT	50
3	(2) INFORMATION FOR SEQ ID NO: 5110:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1 5 .	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 5110:	
	ATCCATAACG TITGGTATCT GTAGCAATAA CTAATACTTT TTCATTCGGT CTA	53
	(2) INFORMATION FOR SEQ ID NO: 5111:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5111:	
30		. 53
	(2) INFORMATION FOR SEQ ID NO: 5112:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	4
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5112:	
	GGAGTCAAAG TCCGTTGCCT TACCGCTTGG CTATAGCCCA ATATATAGAT	50
45	(2) INFORMATION FOR SEQ ID NO: 5113:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGAITTTCTT TTCGAAATTC TTTATGTTGG GGCCCCGCCA ACTTGCATTG	50
	(2) INFORMATION FOR SEQ ID NO: 5114:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5114:	
15	GCTGTGATGG GGAGAAGACA TTGTGTCTTC GAGTCGTTGA TTTCACACTG	50
	(2) INFORMATION FOR SEQ ID NO: 5115:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5115:	
	CTTGATTAAC TCATTATCAA GTTATGCACG TGTAAATGAA TTCGGCTTTA TCGAA	55
30	(2) INFORMATION FOR SEQ ID NO: 5116:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	•
	(B) TYPE: nucleic acid	
3 5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5116:	
40	GTACTTAAAA AATGAATACA TGAGTAAAGC TCATGGCATA AGAAATACTA	50
	(2) INFORMATION FOR SEQ ID NO: 5117:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5117:	
•	CAGAATCAGA TAGCGACTCA GAATCAGATA GTGAGTCAGA TTCAGCAGTN	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
•		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5118:	
	CGAATACTAA TCGATCGAAG ACTTAATCAA AATAAATGTT TTGCGAChAA	50
	(2) INFORMATION FOR SEQ ID NO: 5119:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5119:	
	AATCGTCGAA ACTTAATCAA AATAAATGTT TTGCGACAAA TCACTTTTAC TTACTATCTA	60
25	(2) INFORMATION FOR SEQ ID NO: 5120:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5120:	
	CCGAAGTTTA CGGGGTCATT TTGCCGAGTT CCTTAACGAG AGTTCGCTCG	50
	(2) INFORMATION FOR SEQ ID NO: 5121:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(2) 10:02001. 11:1001	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5121:	
	ATAATCCTGT AGTCGAAAAT GTTGTCTCTC TTGAGTGGAT CCTTAGTACG CCGGGGCACG	60
50	T	61
	(2) INFORMATION FOR SEQ ID NO: 5122:	
	1-1	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5122:	
10	TAGCGACTCA GATTCAGACA GCGATTCAGA CAGCGACTCA GACTCAGATA	50
	(2) INFORMATION FOR SEQ ID NO: 5123:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5123:	
	TATTTGTAAA TTGTATCCTG GCTTAAGTTG GCCATTTTTC ATATGGTCTT	50
25	(2) INFORMATION FOR SEQ ID NO: 5124:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5124:	
35	CACGAGCTGA CGACAACCAT GCACCACCTG TCACTTTGTC CCCCGAGAAG GTCTCTATCT	60
	(2) INFORMATION FOR SEQ ID NO: 5125: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5125:	
	AGAACACATT GCAGTCTTCG AGTCGTTGAT TTCACACTGC CGTAGTAAAA GCCTCTAGAT	60
50	AGAA	64
	(2) INFORMATION FOR SEQ ID NO: 5126:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5126:	
	GGACGACATT AGACGAATCA TCTGGAAAAG ATGAGTCAAA GAAGGTAATA GTCCTGT	57
10	(2) INFORMATION FOR SEQ ID NO: 5127:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5127:	
20	GTCCTTAGTA CGAGATGACC GGGATGGACA TACCTCTGGT GTACCAGTTG	50
	(2) INFORMATION FOR SEQ ID NO: 5128:	
25	(i) SEQUENCE CHARACTERISTICS:	,
25	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5128:	
	GCCGATTTTA GCAGTTGTTG CTTCGTTCAA TTTTATGGGG CCATTTATGG	50
3 5	(2) INFORMATION FOR SEQ ID NO: 5129:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5129:	
70	TCCACACATA GCTACCCAGT CTATGCCGTT TGCACTACAA CTGGTACACC A	51
	(2) INFORMATION FOR SEQ ID NO: 5130:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5130:	-
5	CTCAGTTGGT TGAGCATCTG ACTTTTAATC AAAGGGTCAA GGGTCGAATC CTCTTTT	.57
•	(2) INFORMATION FOR SEQ ID NO: 5131:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5131:	
	TGATATTCAC TTCAATGTTA TCAATATTAG TGCCATCTAT GACATCTGCC A	51
20	(2) INFORMATION FOR SEQ ID NO: 5132:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5132:	
30	TCCTGTAGTC GAACGTGTTG TCTCTCTTGA GTGGATCCTG AGTACGACGG A	51
	(2) INFORMATION FOR SEQ ID NO: 5133:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) TOPOLOGI. TIMEAT	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5133:	
	ACTCAGACAT TGGATTCAGA TTCAGACAGC GACTCAGATT CAGATAGCGA CTCAGATTC	59
45	(2) INFORMATION FOR SEQ ID NO: 5134:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5134:	

	(2) INFORMATION FOR SEQ ID NO: 5135:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 5135:	
	CAATACHAAG GGCAGCGAAA CCGTGATTCA AGCAAATCCC ATAAAGTTGG	50
	(2) INFORMATION FOR SEQ ID NO: 5136:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5136:	
25	GAAGCTGGCG AAAAGTCAGC TTACAAAATG TGCCAGTTGG CGGGGGCCCA AC	52
	(2) INFORMATION FOR SEQ ID NO: 5137:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 5137:	
	TTGTAAGGAA GATGCTCTCC CAGCTGAGCT AATTCTCCAA AATAATGAnT	50
40	(2) INFORMATION FOR SEQ ID NO: 5138:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5138:	
-	CTGTACAAGC TGTGCCGATA TTTCAATATC AnGnTACAGT ANAGCTCCAC	50
	(2) INFORMATION FOR SEQ ID NO: 5139:	
5 5		

5	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5139:	
10	GGTTCGAATC CTGTCTTCCC GATATACTGT AATTATTATG GGGGCTTTGC TC	52
	(2) INFORMATION FOR SEQ ID NO: 5140:	•
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5140:	
	GCTACTGAAC CTATAAAATG TATGATGGCG GTCTCGAGGG AATCGAACCC AGATCT	56
25	(2) INFORMATION FOR SEQ ID NO: 5141:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5141:	
35	AGGAGGCTCG TCCGCTCTAG GTTAGTCGGG TCCTAAGCTG AGGCCGACAG TA	52
	(2) INFORMATION FOR SEQ ID NO: 5142:	,
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5142:	
	CACGCTTTCG ACATCAGCGT CAGTTACAGA CCAGAAAGTC GCCTTCGCAC TGGTGT	56
50	(2) INFORMATION FOR SEQ ID NO: 5143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5143:	
	CTCCTAAAAC AATTTACATC CAAACCTTCA TCACTCAC	60
5	CGCCATTGCG AAGAT	75
	(2) INFORMATION FOR SEQ ID NO: 5144:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5144:	
	GAGGAGTGGT TAGCTTCTGC GGAGTACGAA TCGAGCCCCG TAAACGGCGG CCGGT	55
20	(2) INFORMATION FOR SEQ ID NO: 5145:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5145: GCCTAATACT CAGCCTGACT GCTTAGACGT GCAATCCATA TCAGCACGAT TCG	53
	(2) INFORMATION FOR SEQ ID NO: 5146:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5146:	
	AGCTGTGGAT TGTCCTTTTG GCATGGGTAA GGAGAACGTT CTAAGGGCGT T	51
45	(2) INFORMATION FOR SEQ ID NO: 5147:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5147:	
	CTCTTTGATC CGTAGTCAAA CGCTCTATCC AATTGAGCTA CGGGCGCATA	50
5	(2) INFORMATION FOR SEQ ID NO: 5148:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5148:	
	GAACTAATTC TCCAAAATAA TGACTCCTAC AGGAACTCGA ACCCGTATAA CCGCCGTAAA	60
	(2) INFORMATION FOR SEQ ID NO: 5149:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(8) 333 333 333 333 333 333 333 333 333 3	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5149: AAAGCACACC CGGAAAACTG AAACATCTTA AGTACCCGGA GNAAGAGAAA	50
	(2) INFORMATION FOR SEQ ID NO: 5150:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(w/) CROUNNER PROCEDURED CO. TO NO. 5150	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5150:	
	GTAAGTTCGC ACTACCATCG ACGCTAAGGG AGCTTAACTT CTGTGGTTCG GCATGG	56
45	(2) INFORMATION FOR SEQ ID NO: 5151: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5151:	

	(2) INFORMATION FOR SEQ ID NO: 5152:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5152:	
	CTATTCTCTG TGTCGGGCTC ACCCCAACTT GCACACTATT GTAAGCTGAC TTTCCTCCA	59
15	(2) INFORMATION FOR SEQ ID NO: 5153:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5153: TAACCACATC ATTCGGATAC TGTTCATGGA AGTAATTTCT CTATTCTTCG GACCAGGAAA	60
		65
	ATACA	65
<i>з</i> о	(2) INFORMATION FOR SEQ ID NO: 5154:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5154:	
40	CCATATGTGT CAGTCACTGT GCACATCTTG ACGGTACCTA ATCAGACAGC CACGGCTAAC	60
	TCCGTGCCAG CCGCCGCGT ACTACGTGGT G	91
45	(2) INFORMATION FOR SEQ ID NO: 5155:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5155:	

	(2) INFORMATION FOR SEQ ID NO: 5156:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5156:	
	GACTCTGGGA GGACCATCTC CTAAGGCTAA ACTACTCTCT CGTGACCGAT AGTGAACC	58
15	(2) INFORMATION FOR SEQ ID NO: 5157:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5157:	51
	TTGTAACTCC GGTATAGGAG TGTCCTACAA CCCCAACAAG CAAGCTTGTT G	21
	(2) INFORMATION FOR SEQ ID NO: 5158:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5158:	
	TAGTNACCGN TAGTGAACCA TTACCGTGAG GGAAAGGTGA AAAGCACCCC	50
40	(2) INFORMATION FOR SEQ ID NO: 5159:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5159:	,
	TTCGCTCGCC GCTACTCAAG GGAATCGCAT TTCCTTTCTC TTCCTCCGGG T	51
	(2) INFORMATION FOR SEQ ID NO: 5160:	

5	(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	. •
	(will opening programmer), see ID No. 5160.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5160:	
10	AACTGGAGAA ACAACTTTAT GGGGTTTGCT TGAACCTCGC GGTTTCGCTG CCCTTTGTAT	.60
	T	61
15	(2) INFORMATION FOR SEQ ID NO: 5161:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5161:	
25	AGACCTCTGC CTTACCACTT GGCTATGCGC CAATAACTGG GCTACCTGGA T	51
	(2) INFORMATION FOR SEQ ID NO: 5162:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5162:	
	CCGCTCACTT TTCAACGTAA GTCGGATCGG TCCTCCATTC AGTGTCACCT GAACT	55
40	(2) INFORMATION FOR SEQ ID NO: 5163:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5163:	
50	CTTGATCTGT ATTTAAAATG ATATTTTCTA TCTTTTCTTT	60
	CGTAGTATAA GATTCCGTGT A	81
5 5	(2) INFORMATION FOR SEQ ID NO: 5164:	

5	(A) LENGTH: 62 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5164:	
10	GTTCGAATCC CGTCTTCTGC TCCATTATTT TGCCGGGGTG GCGGCAACTC TCACACGCAC	60
	AG	62
	(2) INFORMATION FOR SEQ ID NO: 5165:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5165:	
25	CAGGGGTCTT TCGTCCTGTG TGGGTAACTG CATCTTCACA GGTACTATGA TTTCA	55
	(2) INFORMATION FOR SEQ ID NO: 5166:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(with groupings programmer, groups and stage	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5166:	
	AAGCTGAGGC CGACAGCGTA GGCGATGGAT GACAGGTTGA TATTGCCGGT ACCACCCGAT	60
40	AA (a) Turanun Tan ana ana an	62
	(2) INFORMATION FOR SEQ ID NO: 5167:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5167:	
	CTTGCGTCTC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA CG	52
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 5168:	

	(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5168:	
10	TCGTCCGCTA TCTCCACCAT TATTTGTACA TTGAAACTAG ATAAGTAGTA AATATA	56
	(2) INFORMATION FOR SEQ ID NO: 5169:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5169:	
	CTTGGACGTC GGTGGGTAGT CGAAACTTAC GTTCCGCTAG AGTAGAACGT TGCCA	55
25	(2) INFORMATION FOR SEQ ID NO: 5170:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	•
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5170:	٠
35	CTACTGCTGC ATATGCGGGT GAAGGGAGTC GAACCCCCAC GCCGTAAGCA TA	52
	(2) INFORMATION FOR SEQ ID NO: 5171:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
.•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5171:	
	GGGCTTnGGA CATTAAGTTC TNAGGCAATG TAAAAAAGCT GATTTCTATT	- 50
50	(2) INFORMATION FOR SEQ ID NO: 5172:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5172:	•
5	AAATTACATG TTAATACGTA ATTAATGGCG AGACTCCTGA GGAACCATTG CCATTCGAAG	60
	(2) INFORMATION FOR SEQ ID NO: 5173:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5173:	
	GTTTTATTTT TTTAAAGTAT GTAAAAGTAA AATTACATGn TAATACGTAn	50
	(2) INFORMATION FOR SEQ ID NO: 5174:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5174:	
30	CAACTCTCGT TAAGGAACTC GGCAAAATAC CCCGTAACTT CGGAGTAGGT CTCTTTA	57
	(2) INFORMATION FOR SEQ ID NO: 5175:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	.•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5175:	
	GGAAACTGGA ATAAATAAAC ATTCAATTGA GCGCATCAGT ATTAGGATTC ACTCTAAAAA	60
45	(2) INFORMATION FOR SEQ ID NO: 5176:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GTAACGGACG CGCTCAAAGG TTCCCTCACA ATGGTTGGAA ATCATTCATA	50
	(2) INFORMATION FOR SEQ ID NO: 5177:	
5		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(b) Topologi: Tillear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5177:	
15	AGTTACGTTC TTTTATAAAG AGGTTTGAGA CGCGTTATTA ATCTTGTGAG	50
	(2) INFORMATION FOR SEQ ID NO: 5178:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5178:	•
	GTGTGGATCC TGAGTACGAC GGAGCACGTG ACAATTCCGT CGGCAATCTG GGG	53
	(2) INFORMATION FOR SEQ ID NO: 5179:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: B3 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5179:	
40	CGGTAACTTC ATACCTTTTA ACATATTTTG CATTTGATTG CGTTTACCTT TTTTACCTTT	60
	ACCGCCACCA GTGAACTGTT TCA	83
	(2) INFORMATION FOR SEQ ID NO: 5180:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5180:	
<i>55</i>		
J	· · · · · · · · · · · · · · · · · · ·	

	TTTAAA	66
	(2) INFORMATION FOR SEQ ID NO: 5181:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5181:	
15	GTTCGGTAAC TCGAGCGGGT CTCATAACCC GTAGGTCGGG TGGTTCAAAT CCGTCCTCCC	60
	GCAATAT	67
	(2) INFORMATION FOR SEQ ID NO: 5182:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(5) 10102001. 22::002	
	The second se	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5182:	
30	TAGCGGTGAA ATGCGCAGAG ATATGGAGGA ACACCAGTAG CGAAGGCAAC TTTCT	55
50	(2) INFORMATION FOR SEQ ID NO: 5183:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
<i>35</i> ·	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	-
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5183:	
	GAATTCCATG TGTAGCGGTG AAATGCGCAG AGATATGNAC GAACACCAAT	50
	(2) INFORMATION FOR SEQ ID NO: 5184:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5184:	

	cc	62
	(a) Turnery men and the vol. Elle.	
•	(2) INFORMATION FOR SEQ ID NO: 5185:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5185:	
15	GAGACCTTGT CGGTCCATAT GCGGCTCATC GCATCCATTT TTTGCCTGGC AACGT	[^] 55
	(2) INFORMATION FOR SEQ ID NO: 5186:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 50 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	,67	
25		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5186:	
	CCATCATTAA GTTGGGCACT CTAAGTTGAC TGCCGGnGnC ACCNAAGAAG	50
30	(2) INFORMATION FOR SEQ ID NO: 5187:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		•
40 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5187:	
	TTAATACGTT GCAATCCAAT CGCACGCTTC GCCTATCCTA CTGCCNTCCC	50
	(2) INFORMATION FOR SEQ ID NO: 5188:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	-
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5188:	
	AGTCGCTATC CGAATCTGAG TCGCTATCTG AGTCTNAGTC GCTANNCCAG	50
<i>55</i>		

	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5189:	
	ATAGATGCCC TTACCGCAAA CCGACACATG TAGTCAATAT GATAATTCTA AGGT	54
*	(2) INFORMATION FOR SEQ ID NO: 5190:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5190:	-
DE	CTTTAATGGG CGAACAGNAC CCTTGGACCG ACTACAGCCC AGATCGATGA	50
	(2) INFORMATION FOR SEQ ID NO: 5191:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5191:	
	ACATAGCACC CAGCGAGCCG TTGGACGACA ACTGGTACAC CAGAGGATGC CATCCGGCCT	60
	(2) INFORMATION FOR SEQ ID NO:5192:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: protein	
50	(wi) CROURINGE DESCRIPTION, SEC ID NO.5192.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5192:	
	Met Lys Met Ile Asn Lys Leu Ile Val Pro Val Thr Ala Ser Ala Leu 1 5 10 15	

	•				20					25					30		
5		Leu	Ile	Ser 35	Ser	Lys	Ala	Gly	Asp 40	Val	Thr	Val	Ala	Asp 45	Thr	Met	Lys
	٠.	Lys	Ile 50	Gly	Lys	Asp	Gln	Ile 55	Ala	Asn	Ala	Ser	Phe 60	Thr	Glu	Met	Leu
10		Asn 65	Lys	Ile	Leu	Ala	Asp 70	Lys	Tyr	Lys	Asn	Lys 75	Val	Asn	Asp	Lys	Lys 80
		Ile	Asp	Glu	Gln	Ile 85	Glu	Lys	Met	Gln	Lys 90	Gln	Tyr	Gly	Gly	Lys 95	Asp
15		Lys	Phe	Glu	Lys 100	Ala	Leu	Gln	Gln	Gln 105	Gly	Leu	Thr	Ala	Asp 110	Lys	Tyr
		Lys	Glu	Asn 115	Leu	Arg	Thr	Ala	Ala 120	Tyr	His	Lys	Glu	Leu 125	Leu	Ser	Asp
20		Lys	Ile 130	Lys	Ile	Ser	Asp	Ser 135	Glu	Ile	Lys	Glu	Asp 140	Ser	Lys	Lys	Ala
?5		Ser 145	His	Ile	Leu	Ile	Lys 150	Val	Lys	Ser	Lys	Lys 155	Ser	Asp	Xaa	Glu	Gly 160
		Leu	Asp	Asp	Lys	Glu 165	Ala	Lys	Gln	Lys	Ala 170	Glu	Glu	Ile	Gln	Lys 175	Glu
30				_	Asp 180			_		185				_	190		
		Met	Asp	Thr 195	Gly	Ser	Ala	Lys	Lys 200	Asp	Gly	Glu	Leu	Gly 205	Tyr	Val	Leu
35		Lys	Gly 210	Gln	Thr	Asp	Lys	Asp . 215	Phe	Glu	Lys	Ala	Leu 220	Phe	Lys	Leu	Lys
		Asp 225	Gly	Glu	Val	Ser	Glu 230	Val	Val	Lys	Ser'	Ser 235	Phe	Gly	Tyr	His	Ile 240
			_		Asp	245	•		_		250		-	-		255	
5		Lys	Glu	Lys	Le u 260	Val	Asp	Gln	Lys	Val 265	Gln	Lys	Asn	Pro	Lys 270	Leu	Leu
		Thr	Asp	Ala 275	Tyr	Lys	Àsp	Leu	Leu 280	Lys	Glu	Tyr	Asp	Val 285	Asp	Phe	Lys
0		Asp	Arg 290	Asp	Ile	Lys	Ser	Val 295	Val	Glu	Asp	Lys	Ile 300	Leu	Asn	Pro	Glu
		Lys 305	Leu	Lys	Gln _,	Gly	Gly 310	Ala	Gln	Gly	Gly	Gln 315	Ser	Gly	Met	Ser	Gln 320
										•							

3188

(2) INFORMATION FOR SEQ ID NO:5193:

(A) LENGTH: 330 amino acids(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

	(ii)	MOLI	ECULI	E TYI	PE: p	prote	ein,					÷	-			
10												,	٠			
	(xi)	SEQ	JENCI	DES	SCRIE	PTIO	N: SI	EQ II	ON C	5193	3:					
,	Met 1	Asn	Lys	Val	Ile 5	Lys	Met	Leu	Val	Val 10	Thr	Leu	Ala	Phe	Leu 15	Leu
15	Val	Leu	Ala	Gly 20	Cys	Ser	Gly	Asn	Ser 25	Asn	Lys	Gln	Ser	Ser 30	Asp	Asn
20	Lys	Asp	Lys 35	Glu	Thr	Thr	Ser	Ile 40	Lys	His	Ala	Met	Gly 45	Thr	Thr	Glu
	Ile	Lys 50	Gly	Lys	Pro.	Lys	Arg 55	Val	Val	Thr	Leu	Tyr	Gln	Gly	Ala	Thr
25	Asp 65	Val	Ala	Val	Ser	Leu 70	Gly	Val	Lys	Pro	Val 75	Gly	Ala	Val	Glu	Ser 80
	Trp	Thr	Gln	Lys	Pro 85	Lys	Phe	Glu	Tyr	Ile 90	Lys	Asn	Asp	Leu	Lys 95	Asp
30	Thr	Lys	Ile	Val 100	Gly	Gln	Glu	Pro	Ala 105	Pro	Asn	Leu	Glu	Glu 110	Ile	Ser
	Lys	Leu	Lys 115	Pro	Asp	Leu	Ile	Val 120	Ala	Ser	Lys	Val	Arg 125	Asn	Glu	Lys
35	Val	Tyr 130	Asp	Gln	Leu	Ser	Lys 135	Ile	Ala	Pro	Thr	Val 140	Ser	Thr	Asp	Thr
	Val 145	Phe	Lys	Phe	Lys	As p	Thr	Thr	Lys	Leu	Met 155	Gly	Lys	Ala	Leu	Gly 160
40	Lys	Glu	Lys	Glu	Ala 165	Glu	Asp	Leu	Leu	Lys 170	Lys	Tyr	Asp	Asp	Lys 175	Val
45	Ala	Ala	Phe	Gln 180		Asp	Ala	Lys	Ala 185	Lys	Tyr	Lys	Asp	Ala 190	Trp	Pro
	Leu	Lys	Ala 195	Ser	Val	Val	Asn	Phe 200	Arg	Åla	Asp	His	Thr 205	Arg	Île	Tyr
50	Ala	Gly 210	Gly	Tyr	Ala	Gly	Glu 215	Ile	Leu	Asn	Asp	Leu 220	Gly	Phe	Lys	Arg
	As n 225	Lys	Asp	Leu	Gln	Lys 230	Gln	Val	Asp	Asn	Gly 235	Lys	Asp	Ile	Ile	Gln 240
55	Leu	Thr	Ser	Lys	Glu 245	Ser	Ile	Pro	Leu	Met 250	Asn	Ala	Asp	His	Ile 255	Phe

		Val	Val	-	Ser .260	Asp	Pro	Asn	Ala	Lys .265	Asp	Ala	Ala	Leu	Val 270	Lys	Lys	
5		Thr	Glu	Ser 275	Glu	Trp	Thr	Ser	Ser 280		Glu	Trp	Lys	Asn 285	Leu	Asp	Ala	
		Val	Lys 290	Asn	Asn	Gln	Val	Ser 295	Asp	Asp	Leu	Asp	Glu 300	Ile	Thr	Trp	Asn	
10		Leu 305	Ala	Gly	Gly	Tyr	Lys 310	Ser	Ser	Leu	Lys	Leu 315	Ile	Asp	Asp	Leu	Tyr 320	
15		Glu	Lys	Leu	Asn	Ile 325	Glu	Lys	Gln	Ser	Lys 330							
,,	(2)	INFO	RMAT:	I NO	FOR S	SEQ :	ID NO	0:519	94:				,					
20		(i)	(B)	LEI TYI	NGTH PE: 8 RANDI	ARACT : 314 amino EDNES GY: 3	ami aci	ino a id singl	acids	5								
		(ii)	MOLI	ECULI	E TYI	PE: p	prote	ein				•						
25														<i>:</i>		•	-	
		(xi)	SEQ	JENCI	E DES	SCRIE	PTION	1: SI	EQ II	NO:	:5194	l :						
30		Met 1	Thr	Arg	Lys	Phe 5	Arg	Thr	Leu	Ile	Leu 10	Ile	Leu	Ile	Ala	Thr 15	Ile	
	•	Ala	Leu	Ser	Gly 20	Cys	Ala	Asn	Asp	Asp 25	Gly	Ile	Tyr	Ser	Asp 30	Lys	Gly	
35		Gln	Val	Phe 35	Arg	Lys	Ile	Leu	Ser 40	Ser	Asp	Leu	Thr	Ser 45	Leu	Asp	Thr	
		Ser	Leu 50	Ile	Thr	Asp	Glu	Ile 55	Ser	Ser	Glu	Val	Thr 60	Ala	Gln,	Thr	Phe	
40		Glu 65	Gly	Leu	Tyr	Thr	Leu 70	Gly	Lys	Gly	Asp	Lys 75	Pro	Val	Leu	Gly	Val 80	
1 5		Ala	Lys	Ala	Phe	Pro 85	Glu	Lys	Ser	Lys	Asp 90	Gly	Lys	Thr	Leu	Lys 95	Val	
		Lys	Leu	Arg	Ser 100	Asp	Ala	Lys	Trp	Ser 105	Asn	Gly	Asp	Lys	Val 110	Thr	Ala	
50		Gln	Asp	Phe 115	Val	Tyr	Ala	Trp	Arg 120	Lys	Thr	Val	Asp	Pro 125	Lys	Thr	Gly	
		Ser	Glu 130	Phe	Ala	Tyr	Ile	Met 135	Gly	Asp	Ile	Lys	Asn 140	Ala	Ser	Asp	Ile	
55		Ser 145	Thr	Gly	Lys	Lys	Pro 150	Val	Glu	Gln	Leu	Gly 155	Ile	Lys	Ala	Leu	Asn 160	

		Asp	Glu	Thr	Leu	Gln 165	Ile	Glu	Leu	Glu	Lys 170	Pro	Val	Pro	Tyr	Ile 175	Asn
5	•	Gln	Leu	Leu	Ala 180	Leu	Asn	Thr	Phe	Ala 185	Pro	Gln	Asn	Glu	Lys 190	Val	Ala
		Lys	Lys	Tyr 195	Gly	Lys	Asn	Tyr	Gly 200	Thr	Ala	Ala	Asp	Arg 205	Ala	Val	Tyr
10		Asn	Gly 210	Pro	Phe	Lys	Val	Asp 215	Asp	Trp	Lys	Gln	Glu 220	Asp	Lys	Thr	Leu
		Leu 22 5	Ser	Lys	Asn	Gln	Tyr 230	Tyr	Trp	Asp	Lys	Lys 235	Asn	Val	Lys	Leu	Asp 240
15		Lys	Val	Asn	Tyr	Lys 245	Val	Ile	Lys	Asp	Leu 250	Gln	Ala	Gly	Ala	Ser 255	Leu
20		Tyr	Asp		Glu 260	Ser	Val	Asp	Asp	Ala 265	Phe	Ile	Thr	Ala	Asp 270	Gln	Val
		Asn	Lys	Tyr 275	Lys	Asp	Asn	Lys	Gly 280	Leu	Asn	Phe	Val	Leu 285	Thr	Thr	Gly
25		Thr	Phe 290	Phe	Val	Lys	Met	Asn 295	Glu	Lys	Gln	Tyr	Pro 300	Asp	Phe	Lys	Asn
	•	Lys 305	Asn	Leu	Arg	Leu	Xaa 310	Ser	His	Lys	Gln						
30	(2)	INFO	RMATI	ON I	FOR S	SEQ I	D NO	519	95:		•						
35		(i)	(B)	JENCI LEI TYI STI	ngth: PE: 6 RANDI	: 280 amino EDNES	ami aci SS: 8	ino a id singl	acids	3					٠		
		(ii)	MOLE	CULI	E TY I	PE: p	rote	ein						*			
40	, .	(xi)	SEQU	JENCI	: E DES	SCRII	PTIO	N: SI	II QE	NO:	:5195	5:					
45		Met 1	Lys	Arg	Leu	Ile 5	Glý	Leu	Val		Val 10	Ala	Leu	Val	Leu	Leu 15	Ala
		Ala	Cys	Gly	Gly 20	Asn	Asn	Asp	Lys	Lys 25	Val	Thr	Ile	Gly	Val 30	Ala	Ser
50		Asn	Asp	Thr 35	Lys	Ala	Trp	Glu	Lys 40	Val	Lys	Glu	Leu	Ala 45	Lys	Lys	Asp
		Asp	Ile 50	Asp	Val	Glu	Ile	Lys 55	His	Phe	Ser	Asp	Tyr 60	Asn	Leu	Pro	Asn
55		Lys 65	Ala.	Leu	Asn	Asp	Gly 70	Asp	Ile	Asp	Met	Asn 75	Ala	Phe	Gln	His	Phe 80

		Ala	Phe	Leu	Asp	Gln 85	Tyr	Lys	Lys	Ala	His 90	Lys	Gly	Thr	Lys	Ile 95	Ser
5	,	Ala	Leu	Ser	Thr 100	Thr	Val	Leu	Ala	Pro 105	Leu	Gly	Ile	Tyr	Ser 110	Asp	Lys
		Ile	Lys	As p 115	Val	Lys	Lys	Val	Lys 120	Asp	Gly	Ala		Val 125	Val	Ile	Pro
10		Asn	Asp 130	Val	Ser	Asn	Gln	Ala 135	Arg	Ala	Leu	Lys	Leu 140	Leu	Glu	Ala	Ala
15		Gly 145	Leu	Ile	Lys	Leu	Lys 150	Lys	Asp	Phe	Gly	Leu 155	Ala	Gly	Thr	Val	Lys 160
		Asp	Ile	Thr	Ser	Asn 165	Pro	Lys	His	Leu	Lys 170	Ile	Thr	Ala	Val	Asp 175	Ala
20		Gln	Gln	Thr	Ala 180	Arg	Ala	Leu	Ser	Asp 185	Val	Asp	Ile	Ala	Val 190	Ile	Asn
		Asn	Gly	Val 195	Ala	Thr	Lys	Ala	Gly 200	Lys	Asp	Pro	Lys	Asn 205	Asp	Pro	Ile
25			210		-			215					220			Asn	
		225				•	230					235				Lys	240
30					_	245					250					Glu 255	
• .	·	Val	Lys	Asp	Gly 260	Glu	Lys	Pro	Val	Asn 265	Leu	Ser	Lys	Asp	Glu 270	Ile	Lys
35		Ala	Ile	Glu 275	Thr	Ser	Leu	Ala	Lys 280		•						
	(2)	INFOR	TAMS	ON I	FOR S	SEQ I	D NO	0:519	€6 :	•							
40		(i)	(A) (B) (C)	LEN TYI	E CHA NGTH: PE: 8 RANDI POLOC	273 emino EDNES	ami aci SS: s	ino a id sing:	cids					:			
_. 45		(ii)	MOLI	ECULI	E TYI	?E: 1	rote	ein									
50		(xi)															
		Met 1	Lys	Lys	Leu	Phe 5	Gly	Leu	Ile	Leu	Val 10	Leu	Thr	Phe	Ala	Val 15	
55		Leu	Ala	Ala	Cys 20	Gly	Asn	Gly	Asn	Lys 25	Ser	Gly	Ser	Asp	Asp 30	Lys	Lys

	Ile	Thr	Val	Ser	Ala	Ser	Pro	Ala 40	Pro	His	Ala	Glu	Ile 45	Leu	Glu	Lys
	Ala	Lys 50	Pro	Leu	Leu	Glu	Lys 55	Lys	Gly	Tyr	Glu	Leu 60	Asp	Ile	Lys	Thr
·	Ile 65	Asn	Asp	Tyr	Thr	Thr 70	Pro	Asn	Lys	Leu	Leu 75	Asp	Lys	Gly	Glu	Ile 80
)	Asp	Ala	Asn	Tyr	Phe 85	Gln	His	Thr	Pro	Tyr 90	Leu	Asn	Thr	Glu	Lys 95	Lys
	Asp	Lys	Gly	Tyr 100	Lys	Ile	Val	Ser	Ala 105	Gly	Asp	Val	His	Leu 110	Glu	Pro
5	Met	Ala	Val 115	Tyr	Ser	Lys	Lys	Tyr 120	Lys	Ser	Leu	Lys	Glu 125	Leu	Pro	Lys
)	Gly	Ala 130	Thr	Val	Tyr	Val	Ser 135	Asn	Asn	Pro	Ala	Glu 140	Gln	Gly	Arg	Phe
,	Leu 145	Lys	Phe	Phe	Val	Asp 150	Ala	Gly	Leu	Ile	Lys 155	Ile	Lys	Lys	Gly	Val 160
;	Lys	Ile	Glu	Asp	Ala 165	Lys	Phe	Ser	Asp	Ile 170	Thr	Glu	Asn	Lys	Lys 175	Asp
٠.	Ile	Lys	Phe	Asn 180	Asn	Lys	Gln	Ser	Ala 185	Glu	Phe	Leu	Pro	Lys 190	Ile	Tyr
	Gln	Asn	Glu 195	Asp	Ala	Asp	Ala	Val 200	Ile	Ile	Asn	Ser	Asn 205	Phe	Ala	Ile
•	Glu	Gln 210	•	Leu	Asn	Pro	Lys 215	Lys	Asp	Ser	Ile	Ala 220	Val	Glu	Ser	Ala
5.	Lys 225	Asp	Asn	Pro	Tyr	Ala 230	Asn	Leu	Ile	Ala	Val 235	Lys	Glu	Gly	His	Gln 240
	Asp	Asp	Lys	Lys	Ile 245	Lys	Ala	Leu	Ile	Glu 250	Val	Leu	Gln	Ser	Lys 255	Asp
)	Ile	Gln	Asp	Phe 260	Ile	Asn	Glu	Lys	Tyr 265	Asn	Gly	Ala	Val	Ile 270	Pro	Ala
	Lys			,												
(2)	INFO	TAMS	י אס	FOR S	SEO '	ינא כו	0:519	97:				•				

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

55

	(xi)	SEQ	JENCI	E DES	SCRII	PTIO	N: SI	EQ II	ONO:	:519′	7 :					
5	Met 1	Lys	Lys	Ile	Lys 5	Tyr	Ile	Leu	Val	Val 10	Phe	Val	Leu	Ser	Leu 15	Thr
	Val	Leu	Ser	Gly 20	Cys	Ser	Leu	Pro	Gly 25	Leu	Gly	Ser	Lys	Ser 30	Thr	Lys
10	Asn	Asp	Val 35	Lys	Ile	Thr	Ala	Leu 40	Ser	Thr	Ser	Glu	Ser 45	Gln	Ile	Ile
	Ser	His 50	Met	Leu	Arg	Leu	Leu 55	Ile	Glu	His	Asp	Thr 60	His	Gly	Lys	Ile
15	Lys 65	Pro	Thr	Leu	Val	Asn 70	Asn	Leu	Gly	Ser	Ser 75	Thr	Ile	Gln	His	Asn 80
	Ala	Leu	Ile	Asn	Gly 85	Asp	Ala	Asn	Ile	Ser 90	Gly	Val	Arg	Tyr	Asn 95	Gly
20	Thr	Asp	Leu	Thr 100	Gly	Ala	Leu	Lys	Glu 105	Ala	Pro	Ile	Lys	Asn 110	Pro	Lys
25	Lys	Ala	Met 115	Ile	Ala	Thr	Gln	Gln 120	Gly	Phe	Lys	Lys	Lys 125	Phe	Asp	Gln
	Thr	Phe 130	Phe	Asp	Ser	Tyr	Gly 135	Phe	Ala	Asn	Thr	Tyr 140	Ala	Phe	Met	Val
30	Thr 145	Lys	Glu	Thr	Ala	Lys 150	Lys	Tyr	His	Leu	Glu 155	Thr	Val	Ser	Asp	Leu 160
	Ala	Lys	His	Ser	Lys 165	Asp	Leu	Arg	Leu	Gly 170	Met	Asp	Ser	Ser	Trp 175	Met
35	Asn	Arg	Lys	Gly 180	Asp	Gly	Tyr	Glu	Gly 185	Phe	Lys	Lýs	Glu	Tyr 190	Gly	Phe
	Asp	Phe	Gly 195	Thr	Val	Arg	Pro	Met 200	Gln	Ile	Gly	Leu	Val 205	Tyr.	Asp	Ala
40	Leu	Asn 210	Ser	Glu	Lys	Leu	Asp 215	Val	Ala	Leu	Gly	Tyr 220	Ser	Thr	Asp	Gly
45	Arg 225	Ile	Ala	Ala	Tyr	Asp 23,0	Leu	Lys	Val	Leu	Lys 235	qaA	Asp	Lys	Gln	Phe 240
40	Phe	Pro	Pro	Tyr	Ala 245	Ala	Ser	Ala	Val	Ala 250	Thr	Asn	Glu	Leu	Leu 255	Arg
50	Gln	His	Pro	Glu 260	Leu	Lys	Thr	Thr	Ile 265	Asn	Lys	Leu	Thr	Gly 270	Lys	Ile
,	Ser	Thr	Ser 275	Glu	Met	Gln	Arg	Leu 280	Asn	Tyr	Glu	Ala	Asp 285	Gly	Lys	Gly
55	Lys	Glu 290	Pro	Ala	Val	Val	Ala 295	Glu	Glu	Phe	Leu	Lys 300	Lys	His	His	Tyr

		Phe 305	Asp	Lys	Gln	Lys	Gly 310	Gly	His	Lys								
5	(2)	INFO	RMAT	ION 1	FOR :	SEQ :	ID N	0:51	98:					·				
10	, •	(i)	(B) LEI) TYI) STI	NGTH PE: 8 RAND	: 28 amin EDNE	am:	ino a id sing:	acid	5								
		(ii)	MOL	ECULI	E TY	PE:]	prote	ein [.]		-								•
15		(xi)	SEQ	JENCI	E DE	SCRI	PTIO	N: S1	SQ II	o no	:5191	3:						
		Met 1	Lys	Lys	Leu	Thr 5	Thr	Leu	Leu	Leu	Ala	Ser	Thr	Leu	Leu	Ile 15	Ala	
20		Ala	Cys	Gly	Asn 20	Asp	Asp	Ser	Lys	Lys 25	Asp	Asp	Ser	Lys	Thr 30	Ser	Lys	
2 5	•	Lys	Asp	Asp 35	Gly	Val	Lys	Ala	Glu 40	Leu	Lýs	Gln	Ala	Thr 45	Lys	Ala	Tyr	
		Asp	Lys 50	Tyr	Thr	Asp	Glu	Gln 55	Leu	Asn	Glu	Phe	Leu 60	Lys	Gly	Thr	Glu	
30		Lys 65	Phe	Val	Lys	Ala	Ile 70	Glu	Asn	Asn	Asp	Met 75	Ala	Gln	Ala	Lys	Ala 80	
		Leu	Tyr	Pro	Lys	Val 85	Arg	Met	Tyr	Tyr	Glu 90	Arg	Ser	Glu	Pro	Val 95	Ala	
35		Glu	Ala	Phe	Gly 100	Asp	Leu	Asp	Pro	Lys 105	Ile	Asp	Ala	Arg	Leu 110	Ala	Asp	
	,	Met	Lys	Glu 115	Glu	Lys	Lys	Glu	Lys 120	Glu	Trp	Ser	Gly	Tyr 125	His	Lys	Ile	
40		Glu	Lys 130	Ala	Leu	Tyr	Glu	Asp 135	Lys	Lys	·Ile	Asp	Asp 140	Val	Thr	Lys	Lys	
45		Asp 145	Ala	Gln	Gln	Leu	Leu 150	Lys	Asp	Ala	Lys	Glu 155	Leu	His	Ala	Lys	Ala 160	
		Asp	Thr	Leu	Asp	Ile 165	Thr	Pro	Lys	Leu	Met 170	Leu	Gln	Gly	Ser	Val 175	Asp	
50		Leu	Leu	Asn	Glu 180	Val	Ala	Thr	Ser	Lys 185	Ile	Thr	Gly	Glu	Glu 190	Glu	Ile	
		Tyr	Ser	His 195	Thr	Asp	Leu	Tyr	Asp 200	Phe	Lys	Ala	Asn	Val 205	Glu	Gly	Ala	
<i>55</i>		Gln	Lys 210	Ile	Tyr	Asp	Leu	Phe 215	Lys	Pro	Ile	Leu	Glu 220	Lys	Lys	qaA	Lys	

•		Lys 225	Leu	Ser	Asp	Asp	Ile 230	Gln	Met	Asn	Phe	Asp 235	Lys	Val	Asn	Gln	Leu 240
5		Leu	Asp	Lys	Tyr	Lys 245	Asp	Asn	.Asn	Gly	Gly 250	Tyr	Glu	Ser	Phe	Glu 255	Lys
		Val	Ser	Lys	Lys 260	Asp	Arg	Lys	Ala	Phe 265	Ala	Asp	Ala	Val	Asn 270	Ala	Leu
10		Gly	Glu	Pro 275	Leu	Ser	Lys	Met	Ala 280	Val	Ile	Thr	Glu				
	(2)	INFO	RMAT:	ION I	FOR S	SEQ]	D NO	0:519	99:								•
15		(i)	(A) (B) (C)	LEI TYI	E CHA NGTH: PE: & RANDE POLOC	: 284 amino EDNES	ami aci SS: s	ino a ld singl	acids	3				•			
20		(ii)	MOL	CULI	TY	E: p	rote	ein									
25		(xi)	SEQU	JENCE	DES	CRIE	TION	: SE	EQ II	NO:	5199):					
		Met 1	Lys	Lys	Leu	Thr 5	Thr	Leu	Leu	Leu	Ala 10	Ser	Thr	Leu	Leu	Ile 15	Ala
30		Ala	Cys	Gly	Asn 20	Asp	Asp	Ser	Lys	Lys 25	Asp	Asp	Ser	Lys	Thr 30	Ser	Lys
		Lys	Asp	Asp 35	Gly	Val	Lys	Ala	Glu 40	Leu	Lys	Gln	Ala	Thr 45	Lys	Ala	Tyr
<i>35</i>		Asp	Lys 50	Tyr	Thr	Asp	Glu	Gln 55	Leu	Asn	Glu	Phe	Leu 60	Lys	Gly	Thṛ	Glu
		Lys 65	Phe	Val	Lys		Ile 70	Glu	Asn	Asn	Asp	Met 75	Aľa	Gln	Ala	Lys	Ala 80
40		Leu	Tyr	Pro	Lys	Val 85	Arg	Met	Tyr	Tyr	Glu 90	Arg	Ser	Glu	Pro	Val 95	Ala
		Glu	Ala	Phe	Gly 100	Asp	Leu	Asp	Pro	Lys 105	Ile	Asp	Ala	Arg	Leu 110	Ala	Asp
45		Met	Lys	Glu 115	Glu	Lys	Lys	Glu	Lys 120	Glu	Trp	Ser	Gly	Tyr 125	His	Lys	Ile
50		Glu	Lys 130		Leu	Tyr	Glu	Asp 135	Lys	Lys	Ile	Asp	As p 140	Val	Thr	Lys	Lys
		Asp 145	Ala	Gln	Gln	Leu	Leu 150	Lys	qeA	Ala	Lys	Glu 155	Leu	His	Ala	Lys	Ala 160
55		Asp	Thr	Leu	Asp	Ile 165	Thr	Pro	Lys	Leu	Met 170	Leu	Gln	Gly	Ser	V al 175	Asp

		Leu	Leu	Asn	Glu 180	Val	Ala	Thr	Ser	Lys 185	Ile	Thr	Gly	Glu	Glu 190	Glu	Ile
5		Tyr	Ser	His 195	Thr	Asp	Leu	Tyr	Asp 200	Phe	Lys	Ala	Asn	Val 205	Glu	Gly	Ala
		Gln	Lys 210	Ile	Tyr	Asp	Leu	Phe 215	Lys	Pro	Ile	Leu	Glu 220	Lys	Lys	Asp	Lys
10 .		Lys 225	Leu	Ser	Asp	Asp	Ile 230	Gln	Met	Asn	Phe	Asp 235	Lys	Val	Asn	Gln	Leu 240
		Leu	Asp	Lys	Tyr	Lys 245	Asp	Asn	Asn	Gly	Gly 250	Tyr	Glu	Ser	Phe	Glu 255	Lys
15		Val	Ser	Lys	Lys 260	Asp	Arg	Lys	Ala	Phe 265	Ala	Asp	Ala	Val	Asn 270	Ala	Leu
20		Gly	Glu	Pro 275	Leu	Ser	Lys	Met	Ala 280	Val	Ile	Thr	Glu				
20	(2)	INFO	RMAT	ON I	FOR S	SEQ :	ID NO	5:52	00:								
25		(i)	(A) (B) (C)	LEN TYI	NGTH PE: & RANDI	: 208 amino	Bami Daci SS: S	sing:	acids	5					·		
	. •	(ii)	MOLE	ECULI	E TYI	PE: I	prote	≥in									
30		(xi)	SEOU	JENCE	E DES	SCRII	PTION	N: SI	EO II	D N O:	: 5200) :	•				
<i>35</i>	•							Val					Ser	Leu	Ser	Leu 15	Leu
		Thr	Ala	Cys	Gly 20	Ala	Asn	Gln	His	Lys 25	Glu	Asn	Ser	Ser	Lys 30	Ser	Asn
40		Asp	Thr	Asn 35	Lys	Lys	Thr	Gln	Gln 40	Thr	Asp	Asn	Thr.	Thr 45	Gln	Ser	Asn
	·	Thr	Glu 50	Lys	Gln	Met	Thr	Pro 55	Gln	Glu	Ala	Glu	Asp 60	Ile	Val	Arg	Asn
45		Asp 65	Tyr	Lys	Ala	Arg	Gly 70	Val	Asn	Glu	Tyr	Gln 75	Thr	Leu	Asn	Tyr	Lys 80
50	,	Thr	Asn	Leu	Glu	Arg 85	Ser	Asn	Glu	His	Glu 90	Tyr	Tyr	Val	Glu	His 95	Leu
		Val	Arg	Asp	Ala 100	Val	Gly	Thr	Pro	Leu 105	Lys	Arg	Cys	Ala	Ile 110	Val	Asn
<i>55</i>		Arg		Asn 115	Gly	Thr	Ile	Ile	Asn 120	Ile	Phe	Asp	Asp	Met 125	Ser	Glu	Lys

	•	Asp	Lys 130		Glu	Phe	Glu	135		Lys	Lys	Arg	Ser	Pro	Lys	Tyr	Asn
5		Pro 145		Met	Asn	Asn	His 150		Glu	Thr	qaA	Gly 155	Glu	Ser	Glu	Asp	Ile 160
		Glņ	His	His	Asp	Ile 165		Asn	Asn	Lys	Ala 170	Ile	Gln	Asn	Asp	Ile 175	Pro
10		Asp	Gln	Lys	Val 180	Asp	Asp	Lys	Asn	Asp 185	Lys	Asn	Ala	Val	Asn 190	Lys	Glu
		Glu	Lys	His 195		Asn	Gly		Asn 200		Ser	Glu	Glu	Thr 205	Lys	Val	Lys
15	(2)	INFO	RMAT	ION :	FOR :	SEQ	ID N	0:52	01:			,					
20		(i)	(A (B (C) LE) TY) ST	E CH NGTH PE: 7 RAND: POLO	: 18- amin EDNE:	4 am. o ac: SS: :	ino i id sing	acid	S							
25		(ii)	MOL	ECUL	E TY	PE:]	prote	ein È		•							
							-										
•		(xi)	SEQ	JENC	E DES	SCRII	PTIO	N: S	EQ II	o n o	: 520:	l:					
<i>30</i>		Met 1	Leu	Lys	Gly	Cys 5	Gly	Gly	Cys	Leu	Ile 10	Ser	Phe	Ile	Leu	Leü 15	Ile
		Ile	Leu	Leu	Ser 20	Ala	Cys	Ser	Met	Met 25	Phe	Ser	Asn	Asn	Asp 30	Asn	Ser
35		Thr	Asn	Asn 35	Gln	Ser	Ser	Lys	Thr 40	Gln	Leu	Thr	Gln	Lys 45	Asp	Glu	Asn
1 0		Lys	Asn 50	Glu	Asp	Lys	Pro	Glu 55	Glu	Lys	Ser	Glu	Thr 60	Ala	Thr	Asp	Glu
		Asp 65	Leu	Gln	Ser	Thr	Glu 70	Glu	Val	Pro	Ala	Asn 75	Glu	Asn	Thr	Glu	Asn 80
45		Asņ	Gln	His	Glu	Ile 85	Asp	Glu	Ile	Thr	Thr 90	Lys	Asp	Gln	Ser	Asp 95	Asp
		Asp	Ile	Asn	Thr 100	Pro	Asn	Val	Ala	Glu 105	Asp	Lys	Ser	Gln	Asp 110	Asp	Leu
50		Lys	Asp	Asp 115	Leu	Lys	Glu	-	Gln 120	Gln	Ser	Ser	Asn	His 125	His	Gln	Ser
. •		Thr	Gln 130	Pro	Lys	Thr	Ser	Pro 135	Ser	Thr	Glu	Thr	Asn 140	Thr	Gln	Gln	Ser
55		Phe	Ala	Asn	Cys	Lys	Gln	Leu	Arg	Gln	Val	Tyr	Pro	Asn	Gly	Val	Thr

		Ala	Asp	His	Pro	Ala 165	Tyr	Arg	Pro	His	Leu 170	Asp	Arg	qeA	Lys	Asp 175	Lys
5		Arg	Ala	Cys	Glu 180	Pro	Asp	Lys	Tyr								
	. (2)	INFO	RMAT:	ION I	FOR S	SEQ :	D NO	520	02:								
0		(i)	(B)	LEI TYI		: 208 amino	am:	ino a id	acids	3							
•	•	•			POLO	_		_		•							
5		(ii)	MOLI	ECULI	E TY	?E: p	rote	ein									
		•													•		
0		(xi)	_														
		Met 1	Lys	Lys	Arg	Leu 5	Leu	Leu	Ser	Thr	Phe 10	Leu	Ala	Ser	Thr	Leu 15	Ile
5		Leu	Thr	Gly	Cys 20	Ala	Ser	Asp	Gln	Ser 25	Asp	Asn	Glu	Asp	His 30	His	Thr
	·	Ser	Thr	Gly 35	Ile	His	Ala	Pro	Lys 40	Ser	Ala	Lys	Lys	Leu 45	Glu	Thr	Lys
0		Asp	Ile 50	Phe	Xaa	Ser	Asp	Lys 55	Lys	Asn	Ser	Asp	Ile 60	Ser	Asp	Ala	Glu
	•	Met 65	Lys	Gln	Ala	Ile	Glu 70	Lys	Tyr	Leu	Ser	Val 75	Asn	Ser	Asp	Ile	Leu 80
5		Asp	Asn	Lys	Tyr	Ile 85	Met	Gln	His	Lys	Ļeu 90	Asp	Lys	Gln	Ile	As p 95	Ser
		Gln	Thr	Lys	Val 100	Thr	Glu	Lys	Gln	Ala 105	Glu	Thr	Leu	Ser	His 110	Leu	Ser
0		Asn	Leu	Ala 115	Val	Lys	Asn	Asp	Leu 120	His	Phe	Lys	Lys	Phe 125	Val	Thr	Glu
5		Asn	Asn 130	Ile	Pro	Lys	Glu	Tyr 135	Lys	Lys	Pro	Val	Glu 140	Leu	Met	Met	Asn
		Tyr 145	Phe	Lys	Ala	Leu	Asn 150	Ser	Thr	Ile	Ala	Asn 155	Val	Asp	Glu	Asp	Ile 160
o .		Glu	Lys	Leu	Ser	Tyr 165	Gln	Pro	Gln	Asn	Lys 170	Ile	Asn	Val	Val	Asp 175	Val
		Pro	Thr	Lys	Tyr 180	Ala	Gly	Asp	Val	Asn 185	Lys	Lys	Gln	Gln	Asp 190	Lys	Ile
_		Lvs	Asp	Phe	Leu	Lvs	Ser	Lvs	Glv	Ile	Lvs	Ser	Asp	Val	Ile	Asp	Lvs

(2) INFORMATION FOR SEQ ID NO:5203:

5		(i)	(A (B (C) LE) TY) ST	e ch ngth PE: RAND POLO	: 28 amin EDNE	3 am o ac SS:	ino id sing	acid	S	•						
10		(ii)	MOL	ECUL	E TY	PE:	prot	ein									
15		(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S:	EQ I:	D NO	:520	3 :					•
		Met 1	Lys	Ser	Lys	Ile 5	Tyr	Ile	Leu	Leu	Leu 10	Xaa	Leu	Ile	Phe	Leu 15	Ser
20		Ala	Cys	Ala	Asn 20	Thr	Arg	His	Ser	Glu 25	Ser	Asp	Lys	Asn	Val	Leu	Thr
		Val	Tyr	Ser 35	Pro	Tyr	Gln	Ser	Asn 40	Leu	Ile	Arg	Pro	Ile 45	Leu	Asn	Glu
25		Xaa	Glu 50	Lys	Gln	Glu	His	Val 55	Lys	Ile	Glu	Ile	Lys 60	His	Gly	Ser	Thr
	·	Gln 65	Val	Leu	Leu	Ser	Asn 70	Leu	His	Asn	Glu	Asp 75	Phe	Ser	Glu	Arg	Gly 80
30		Asp	Val	Phe	Met	Gly 85	Gly	Val	Leu	Ser	Glu 90	Thr	Ile	Asp	His	Pro 95	Glu
<i>35</i>		Asp	Phe	Val	Pro 100	Tyr	Gln	Asp	Thr	Ser	Val	Thr	Gln	Gln	Leu 110	Glu	Asp
		Tyr	Arg	Ser 115	Asn	Asn	Lys	Tyr	Val 120	Thr	Ser	Phe	Leu	Leu 125	Met	Pro	Thr
40		Val	Ile 130	Val	Val	Asn	Ser	Asp 135	Leu	Gln	Gly	Asp	Ile 140	Lys	Ile	Arg	Gly
		145					150					155	_			Tyr	160
45		Asn	Pro	Asn	Thr	Thr 165	Thr	Thr	Gly	Tyr	Gln 170	His	Met	Arg	Ala	11e 175	Tyr
		Ser	Met	His	His 180	Arg	Val	Ser	Asp	Val 185	His	Gln	Phe	Gln	Asn 190	His	Ala
5 0		Met	Gln	Leu 195	Ser	Lys	Thr	Ser	Lys 200	Val	Ile	Glu	Asp	Val 205		Lys	Gly
•		Lys	Tyr 210	Tyr	Ala	Gly	Leu	Ser 215	Tyr	Glu	Gln	Asp	Ala 220	Arg	Thr	Trp	Lys

		225					230			•		233					240
	•	Leu	Asn	Val	Asp	Gly 245	Ile	Ala	Leu	Val	Lys 250	Asn	Ala	His	Pro	His 255	Pro
,		Lys	Arg	Lys	Lys 260	Leu	Val	Gln	Tyr	Leu 265	Thr	Ser	Arg	Ser	Val 270	Gln	Gl'n
o		Arg	Leu	Val 275	Ala	Glu	Phe	Asp	Ala 280	Lys	Ser	Ile					
	(2)	INFO	RMAT:	ION I	FOR :	SEQ :	ID N	0:52	04:								
5		(i)	(A) (B) (C)	LEI TYI	NGTH PE: 8 RAND	ARAC : 30: emin EDNE: GY:	9 am: 5 ac: 55: !	ino : id sing:	acid	s							
0		(ii)	MOLE	ECULI	E TY	PE:]	prote	ein									
		(xi)	SEQU	JENC	E DES	SCRI	PTIO	N: Si	EQ II	o no	: 5204	i :				•	
<i>5</i>		Met 1	Lys	Lys	Phe	Ile 5	Gly	Ser	Val	Leu	Ala 10	Thr	Thr	Leu	Ile	Leu 15	Gly
	•	Gly	Сув	Ser	Thr 20	Met	Glu	Asn	Glu	Ser 25	Lys	Lys	Asp	Thr	Lys 30	Thr	Glu
<i>.</i>		Thr	Lys	Ser 35	Val	Pro	Glu	Glu	Met 40	Glu	Ala	Ser	Lys	Tyr 45	Val	Gly	Gln
5		Gly	Phe 50	Gln	Pro	Pro	Ala	Glu 55	Lys	Asn	Ala	Ile	Glu 60	Phe	Ala	Lys	Lys
		His 65	Arg	Lys	Glu	Phe	Glu 70	Lys	Val	Gly	Glu	Gln 75	Phe	Phe	Lys	Asp	Asn 80
o		Phe	Gly	Leu	Lys	Val 85	Lys	Ala	Thr	Asn	Val 90	Val	Gly	Lys	Asp	Asp 95	Gly
•		Val	Glu	Val	Tyr 100	Val	His	Cys	Glu	As p 105		Gly	Ile	Val	Phe 110	Asn	Ala
5		Ser	Leu	Pro 115	Leu	Tyr	Lys	Asp	Ala 120	Ile	His	Gln	Lys	Gly 125	Ser	Met	Arg
		Ser	Asn 130	Asp	Asn	Gly	Asp	Asp 135	Met	Ser	Met	Met	Val 140	Gly		Val	Leu
0		Ser 145	Gly	Phe	Glu	Tyr	Arg 150	Ala	Gln	Lys	Glu	Lys 155	Tyr	Asp	Asn	Leu	Tyr 160
		Lys	Phe	Phe	Lys	Glu 165	Asn 	Glu	Lys	Lys	Tyr 170	Gln	Tyr	Thr	Gly	Phe 175	Thr
5																	

100 105	190		
Phe Tyr Ile Thr Tyr Ser Ser Arg Ser Leu Lys Glu Tyr 195 200 205	_	Lys 1	ſγr
Tyr Glu Pro Leu Ile Arg Lys Asn Asp Lys Glu Phe Lys 210 215 220	Glu	Gly M	1et
Glu Arg Ala Arg Lys Glu Val Asn Tyr Ala Ala Asn Thr 225 230 235	Asp		7al 240
Ala Thr Leu Phe Ser Thr Lys Lys Asn Phe Thr Lys Asp 245 250	Asn	Thr V 255	/al
Asp Asp Val Ile Glu Leu Ser Asp Lys Leu Tyr Asn Leu 260 265	Lys 270	Asn L	ys
Pro Asp Lys Ser Thr Ile Thr Ile Gln Ile Gly Lys Pro 275 280 285		Ile A	s'n
Thr Lys Lys Ala Phe Tyr Asp Asp Asn Arg Pro Ile Glu 290 295 300	Tyr	Gly V	al
His Ser Lys Asp Glu 305			
(2) INFORMATION FOR SEQ ID NO:5205:	. •		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: protein			
5	• •	•	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5205:	•		
Met Lys Lys Leu Val Ser Ile Val Gly Ala Thr Leu Leu 1 5 10	Leu	Ala G 15	ly
Cys Gly Ser Gln Asn Leu Ala Pro Leu Glu Glu Lys Thr	Thr 30	Asp L	eu
Arg Glu Asp Asn His Gln Leu Lys Leu Asp Ile Gln Glu 35 40 45	Leu	Asn G	ln
Arg Glu Asp Asn His Gln Leu Lys Leu Asp Ile Gln Glu			
Arg Glu Asp Asn His Gln Leu Lys Leu Asp Ile Gln Glu 35 40 45 Gln Ile Ser Asp Ser Lys Ser Lys Ile Lys Gly Leu Glu	Lys	Asp L	ys et

					100					105					110		
-		Val	Gln	Ser	Lys	Leu	Asn	Gln	Ile 120	Ser	Asn	Asp	Ile	Gln 125	Ser	Ala	His
5 .		Thr	Ser 130	Tyr	Lys	Asp	Ala	Ile 135	Asp	Gly	Leu	Ser	Leu 140	Ser	Asp	Asp	Asp
10		Lys 145		Thr	Ser	Lys	Asn 150	Ile	Asp	Lys	Leu	Asn 155	Ser	Asp	Leu	Asn	His 160
		Ala	Phe	Asp	Asp	Ile 165	Lys	Asn	Gly	Tyr	Gln 170	Asn	Lys	Asp	Lys	Lys 175	Gln
15	•	Leu	Thr	Lys	Gly 180	Gln	Gln	Ala	Leu	Ser 185	Lys	Leu	Asn	Leu	Asn 190	Ala	Lys
		Ser													•		
20	(2)	INFO	RMAT:	ION 1	FOR S	SEQ :	ID N	D: 520	6:								
		(i)	(B)	LEI TY	NGTH:	: 259 amino	am:	ino a id	acida	5							
25					RANDI POLOC	_		_	le						. ,		
•		(ii)	MOLI	ECULI	E TYI	PE: p	prote	ein									
30															•		
		(xi)	SEQ	JENCI	E DES	CRI	PTION	N: SE	BQ II	NO:	:5206	5 : .					
35		Met 1	Lys	Arg	Leu	Leu 5	Phe	Val	Met	Ile	Ala 10	Phe	Val	Phe	Ile	Leu 15	Ala
	v .	Ala	Cys	Gly	Asn 20	Asn	Ser	Ser	Lys	Asp 25	Lys	Glu	Ala	Ser	Lys 30	Asp	Ser
40										23							
		Lys	Thr	Ile 35	Asn	Val	Gly	Thr	Glu 40		Thr	Tyr	Ala	Pro 45	Phe	Ser	Phe
				35					40	Gly	Thr			45			
45		His	Asp 50	35 Lys	Asp	Gly	Lys	Leu 55	40 Thr	Gly Gly		Asp	Ile 60	45 Asp	Val	Ile	Lys
45		His Ala 65	Asp 50 Val	35 Lys Ala	As p Lys	Gly Glu	Lys Glu 70	Leu 55 Gly	40 Thr Leu	Gly Gly Lys	тут	Asp Lys 75	Ile 60 Phe	45 Asp Asn	Val Glu	Ile Thr	Lys Ser 80
45 50		His Ala 65 Trp	Asp 50 Val Asp	35 Lys Ala Ser	Asp Lys Met	Gly Glu Phe 85	Lys Glu 70 Ala	Leu 55 Gly Gly	40 Thr Leu Leu	Gly Gly Lys Asp	Tyr Leu Ala	Asp Lys 75 Gly	Ile 60 Phe Arg	45 Asp Asn Phe	Val Glu Asp	Ile Thr Val 95	Lys Ser 80

			130					135					140				
5		Gln 145	Thr	Phe	Thr	Ser	Asn 150	-	Gly	Ĺys	Leu	Ala 155	-	Asp	Lys	Gly	Ala 160
		Asp	Ile	Thr	Lys	Val 165	Asp	Gly	Phe	Asn	Gln 170	Ser	Met	Asp	Leu	Leu 175	Leu
10		Ser	Lys	Arg	Val 180	Asp	Ġly	Thr	Phe	Asn 185	Asp	Ser	Leu	Ser	Tyr 190	Leu	Asp
*		Tyr	Lys	Lys 195		Lys	Pro	Asn	Ala 200	Lys	Ile	Lys	Ala	Ile 205	Lys	Gly	Asn
15		Ala	Glu 210	Gln	Ser	Arg	Ser	Ala 215	Phe	Ala	Phe	Ser	Lys 220	Lys	Ala	Asp	Asp
		Glu 225	Thr	Val	Gln	Lys	Phe 230	Asn	Asp	Gly	Leu	Lys 235	Lys	Ile	Glu	Glu	Asn 240
20		Gly	Glu	Leu	Ala	Lys 245	Ile	Gly	Lys	Lys	Trp 250	Phe	Gly	Gln	Asp	Val 255	
		Lys	Ser	Lys													
25	~ (2)	INFO	RMAT	ION I	FOR S	SEQ I	D N	5:52	7:							٠	
		(i)	(A)	LEI TYI	NGTH PE: 8	ARACT : 203 amino	am:	ino a	acids	3							
		(ii)				SY: 1 PE: p											
<i>35</i>																	
		(xi)	SEQU	JENCE	E DES	SCRIE	TION	I: SE	EQ II	NO:	5207	' :					
40		Met 1	Gly	Val	His	Ser 5	Met.	Lys	Leu	Lys	Arg 10	Leu	Phe	Ala	Val	Val 15	Ile
		Ala	Met	Leu	Leu 20	Val	Leu	Ala	Gly	Cys 25	Ser	Asn	Ser	Asn	Asp 30	Asn	Asn
45		Glu	Ser	Lys 35	Lys	qaA	Asp	Ala	Asp 40	Àsn	Gly	Lys	Lys	Gln 45	Glu	Ile	Gln
		Val	Ala 50	Ala	Ala	Ala	Ser	Leu 55	Thr	Asp	Val	Thr	Lys 60	Lys	Leu	Ala	Ser
50		Glu 65	Phe	Lys	Lys	Glu	His 70	Lys	Asn	Ala	Asp	Ile 75	Lys	Phe	Asn	Tyr	Gly 80
		Gly	Ser	Gly	Ala	Leu 85	Arg	Lys	Gļn	Ile	Glu 90	Ser	Gly	Ala	Pro	Val 95	Asp
55																	

				• '	100					1.05					110		
5		Asn	Lys	Ala 115	His	Asp	Thr	Tyr	Lys 120	Tyr	Ala	Lys	Asn	Ser 125	Leu	Val	Leu
		Ile	Gly 130	Asp	Lys	Asp	Ser	Asn 135	Tyr	Thr	Ser		Lys 140	Asp	Leu	Lys	Asp
10		Asn 145	Asp	Lys	Leu	Ala	Leu 150	Gly	Glu	Val	Lys	Thr 155	Val	Pro	Ala	Gly	Lys 160
		Tyr	Ala	Lys	Gln	Tyr 165	Leu	Asp	Asn	Asn	Asn 170	Leu	Phe	Lys	Glu	Val 175	Glu
15		Ser	Xaa	Ile	Val 180		Ala	Lys	Asp	Val 185	Lys	Gln	Val	Leu	Asn 190	Tyr	Val
		Xaa	Lys	Gly 195	Asn	Ala	Lys	Gln	Gly 200	Phe	Val	Tyr					
20	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID N	0:520	08:								
25		(i)	(A (B (C) LEI) TY!) STI	E CHI NGTH PE: 3	: 32° amino EDNES	7 am: 5 ac: 55: 5	ino a id sing:	cid	5						•	·
		(ii)			POLO			•								•	
30		(xi)	S E O	· IENICI	r ne	e C D T 1	OTTO		20 TI	n NO	. 5201						•
	•								· .				Tou	<u>ر</u>	77.	(T) b on	T 011
35		1			Trp	5					10					15	
		Leu	Leu	Gly	Ala 20	Cys	Gly	Gly	Gly	Asn 25	Gly	Gly	Ser	Gly	Asn 30	Ser	Asp
40		Leu	Lys	Gly 35	Glu	Ala	Lys	Gly	Asp 40	Gly	Ser	Ser	Thr	Val 45	Ala	Pro	Ile
. •	٠	Val	Glu 50	Lys	Leu	Asn	Glu	Lys 55	Trp	Ala	Gln	Asp	His 60	Ser	Asp	Ala	Lys
45	•	Ile 65	Ser	Ala	Gly	Gln	Ala 70	Gly	Thr	Gly	Ala	Gly 75	Phe	Gln	Lys	Phe	Ile 80
		Ala	Gly	Asp	Ile	Asp 85	Phe	Ala	Asp	Ala	Ser 90	Arg	Pro	Ile	Lys	Asp 95	Glu
50		Glu	Lys	Gln	Lys 100	Leu	Gln	Asp	Lys	Asn 105	Ile	Lys	Tyr	Lys	Glu 110	Phe	Lys
		Ile	Ala	Gln	Asp	Gly	Val	Thr	Val	Ala	Vaİ	Asn	Lys	Glu	Asn	Asp	Phe

			130					135		•			140				
5		Ala 145		Thr	Trp	Lys	Asp 150	Val	Asn	Ser	Lys	Trp 155	Pro	.Asp	Lys	Lys	Ile 160
		Asn	Ala	Val	Ser	Pro 165	Asn	Ser	Ser	His	Gly 170	Thr	Tyr	Asp	Phe	Phe 175	Gli
10		Asn	Glu	Val	Met 180	Asn	Lys	Glu	Asp	Ile 185	Lys	Ala	Glu	Lys	Asn 190	Ala	Asp
	,	Thr	Asn	Ala 195	Ile	Val	Ser	Ser	Val 200	Thr	Lys	Asn	Lys	Glu 205	Gly	Ile	Gly
15	,	Tyr	Phe 210	Gly	Tyr.	Asn	Phe	Tyr 215	Val	Gln	Asn	Lys	As p 220	Lys	Leu	Lys	Glu
		Val 225	Lys	Ile	Lys	Asp	Glu 230	Asn	Gly	Lys	Ala	Thr 235	Glu	Pro	Thr	Lys	Lys 240
20		Thr	Ile	Gļn	Asp	Asn 245		Tyr	Ala	Leu	Ser 250	Arg	Pro	Leu	Phe	Ile 255	Tyr
		Val	Asn	Glu	Lys 260	Ala	Leu	Lys	Asp	Asn 265	Lys	Val	Met	Ser	Glu 270	Phe	Ile
25		Lys	Phe	Val 275	Leu	Glu	Asp	Lys	Gly 280	Lys	Ala	Ala	Glu	Glu 285	Ala	Gly	Tyr
		Val	Ala 290	Ala	Pro	Glu	Lys	Thr 295	Tyr	Lys	Ser	Gln	Leu 300	Asp	Asp	Leu	Lys
30		Ala 305	Phe	Ile	Asp	Lys	Asn 310	Gln	Lys	Ser	Asp	Asp 315	Lys	Lys	Ser	Asp	Asp 320
35		Lys	Lys	Ser	Glu	Asp 325	Lys	Lys									
	(2)	INFOR	TAMS	ON I	FOR S	SÉQ J	D NO	520	9:								
40		(i)	(A) (B) (C)	LEN TYP STF	E CHA NGTH: PE: a RANDE POLOG	324 mino DNES	ami aci SS: S	no a d singl	cids	.							
		(ii)	MOLE	CULE	TYP	E: F	rote	in					÷	•			
45 .	•							•	•								
		(xi)	SEQU	JENCE	DES	CRIF	TION	I: SE	Q II	NO:	5209):					
50		Met 1	Lys	Arg	Leu	Ser 5	Ile	Ile	Val	Ile	Ile 10	Gly	Ile	Phe	Ile	Ile 15	Thr
	٠	Gly	Cys	Asp	Trp 20	Gln	Arg	Thr	Ser	Lys 25	Glu	Arg	Ser	Lys	Asn 30	Ala	Gln
55	•																•

40

45

i		Asn	Leu 50	Met	Met	Thr	Lys ,	Lys 55	Leu	Leu	Ser	Gln	Tyr 60	Asn	His	Pro	Lys
		Tyr 65	Lys	Leu	Glu	Leu	Val 70	Lys	Phe	Asn	Asn	Trp 75	Pro	Asp	Leu	Met	Asp B0
,		Ala	Leu	Asn	Ser	Gly 85	Arg	Ile	Asp	Gly	Ala 90	Ser	Thr	Leu	Ile	Glu 95	Leu
		Ala	Met	Lys	Ser 100	Lys	Gln	Lys	Gly	Ser 105	Asn	Ile	Lys	Ala	Val 110	Ala	Leu
5		Gly	His	His 115	Glu	Gly	Asn	Val	Ile 120	Met	Gly	Gln	Lys	Gly 125	Met	His	Leu
		Asn	Glu 130	Phe	Asn	Asn	Asn	Gly 135	Asp	Asp	Tyr	His	Phe 140	Gly	Ile	Pro	His
		Arg 145	Tyr	Ser	Thr	His	Tyr 150	Leu	Leu	Leu	Glu	Glu 155	Leu	Arg	Lys	Gln	Leu 160
	٠	Lys	Ile	Lys	Pro	Gly 165	His	Phe	Ser	Tyr	His 170	Glu	Met	Ser	Pro	Ala 175	Glu
5		Met	Pro	Ala	Ala 180	Leu	Ser	Glu	His	Arg 185	Ile	Thr	Gly	Tyr	Ser 190	Val	Ala
2		Glu	Pro	Phe 195	Gly	Ala	Leu	Gly	Glü 200	Lys	Leu	Gly	Lys	Gly 205	Lys	Thr	Leu
•		-	His 210	Gly	Asp	Asp	Val	Ile 215	Pro	Asp	Ala	Tyr	Cys 220	Cys	Val	Leu	Val
5		Leu 225	Arg	Gly	Glu	Leu	Leu 230	Asp	Gln	His	Lys	Asp 235	Val	Ala	Gln	Ala	Phe 240
		Val	Gln	Asp	Tyr	Lys 245	Lys	Ser	Gly	Phe	Lys 250	Met	Asn	Asp	Arg	Lys 255	Gln
9		Ser	Val	Asp	Ile 260	Met	Thr	His	His	Phe 265	Lys	Gln	Ser	Arg	Asp 270	Val	Leu
		Thr	Gln	Ser 275	Ala	Ala	Trp	Thr	Ser 280	Tyr	Gly	Asp	Leu	Thr 285	Ile	Lys	Pro
5		Ser	Gly 290	Tyr	Gln	Glu	Ile	Thr 295	Thr	Leu	Val	Lys	Gln 300	His	His	Leu	Phe
		Asn 305	Pro	Pro	Ala	Tyr	Asp 310	Asp	Phe	Val	Glu	Pro 315	Ser	Leu	Tyr	Lys	Glu 320
' .		Ala	Ser	Arg	Ser		٠.								,		

- (2) INFORMATION FOR SEQ ID NO:5210:
 - (i) SEQUENCE CHARACTERISTICS:

(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

5		(ii)	MOL	ECUL	E TY	PE:	prot	ein				-					
																	,
10		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: 5	EQ I	D NO	:521	0 :					
		Met 1	Lys	Lys	Thr	Leu 5	Gly	Cys	Leu	Leu	Leu 10	Ile	Met	Leu	Leu	Val 15	Va]
15	,	Ala	Gly	Cys	Ser 20	Phe	Gly	Gly	Asn	His 25	Lys	Leu	Ser	Ser	Lys 30	Lys	Ser
		Glu	Glu	Ser 35	Lys	Gln	Glu	Thr	Val	Lys	Lys	Glu	Ser	Glu 45	Glu	Glu	Lys
20		Asp	Pro 50	Asp	Leu	Glu	Lys	Tyr 55	Glu	Glu	Ile	Glu	Lys 60	Lys	Met	Lys	Gly
		Ile 65	Lys	Asp	Ala	Pro	Ser 70	Leu	Asp	Lys	Leu	Asp 75	Pro	Leu	Met	Thr	Glu 80
25	-,	Lys	Ser	Phe	Thr	Asn 85	Ser	Lys	Gly	Ile	Gln 90	Gly	Trp	Lys	Asp	Tyr 95	Lys
		Glu	Leu	Met	Gly 100	Lys	Val	Glu	Leu	Ala 105	Asp	Tyr	Arg	Phe	Thr 110	Lys	Asp
30		Ser	Lys	Gly 115	Ser	Ser	Ile	Lys	Asp 120	Val	Asp	Ala	Phe	Phe 125	Lys	Gly	Lys
35		Lys	Gly 130	Ile	Lys	Arg	Lys	Val 135	Ile	Glu	Thr	His	Asp 140	Asp	Val	Lys	Gln
55		Val 145	Asp	Tyr	Trp												
	(2)	INFOR	TAMS	ON E	FOR	SEQ I	D NO	521	L1:								
40		(i)	(B)	LEN	IGTH:	: 33 amino	TERIS amir aci	no ac .d	cids		-						
15			(D)				inea	-									
		(ii)	MOLE	CULE	TYP	PE: p	rote	ein				•					
50		·(xi)	SEOU	IENCE	DES	CRIF	TION	ı: SE	EQ II	NO:	5211	· •					
													Ser	Ara	Hie	Xaa	ىنىدىل
		1	.E.L.O	CYB	AL G	5	BUR		J17		10	F	JEI	~y	n L S	15	יניי
55																	

		HIS	•														
5	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID N	D: 52 :	12:					٠.			
10		(i)	(A (B (C) LEI) TYI) STI	NGTH PE: & RANDI	: 490 amino EDNES	rerison ami	ino a id sing:	acid	5							
		(ii)	MOL	ECULI	E TYI	PE: J	prote	ein									
15	٠																
		(xi)	SEQ	JENCI	E DES	SCRII	PTIO	N: S1	EQ II	NO:	: 5212	2:					
20		Met 1	Ser	Ile	Ile	Met 5	Glu	Val	Ala		Met 10	Gln	Ala	Lys	Leu	Thr 15	Lys
		Asn	Glu	Phe	Ile 20	Glu	Trp	Leu	Lys	Thr 25	Ser	Glu	Gly	Lys	Gln 30	Phe	Asn
25		Val	Asp	Leu 35	Trp	Tyr	Gly	Phe	Gln 40	Cys	Phe	Asp	Tyr	Ala 45	Asn	Ala	Gly
30		Trp	Lys 50	Val	Leu	Phe	Gly	Leu 55	Leu	Leu	Lys	Gly	Leu 60	Gly	Ala	Lys	Asp
		Ile 65	Pro	Phe	Ala	Asn	Asn 70	Phe	Asp	Gly	Leu	Ala 75	Thr	Val	Tyr	Gln	Asn 80
35		Thr	Pro	Asp	Phe	Leu 85	Ala	Gln	Pro	Gly	Asp 90	Met	Val	Val	Phe	Gly 95	Ser
		Asn	Tyr	Gly	Ala 100	Gly	Tyr	Gly	His	Val 105	Ala	Trp	Val	Ile	Glu 110		Thr
40		Leu	Asp	Tyr 115	Ile	Ile	Val	Tyr	Glu 120	Gln	Asn	Trp _.	Leu	Gly 125	Gly	Gly	Trp
		Thr	As p 130	•	Ile	Glu	Gln	Pro 135	Gly	Trp	Gly	Trp	Glu 140	Lys	Val	Thr	Arg
45		Arg 145	Gln	His	Ala	Tyr	Asp 150	Phe	Pro	Met	Trp	Phe 155	Ile	Arg	Pro	Asn	Phe 160
		Lys	Ser	Glu	Thr	Ala 165	Pro	Arg	Ser	Val	Gln 170	Ser	Pro	Thr	Gln	Ala 175	Pro
50		Lys	Lys	Glu	Thr 180	Ala	Lys	Pro	Gln	Pro 185	Lys	Ala	Val	Glu	Leu 190	Lys	Ile
÷		Ile	-	Asp		Val	Lys	Gly	Tyr	Asp	Leu	Pro	Lys	Arg	Gly	Ser	Asn

			210		•			.215					220				
5	٠	Ala 225	Glu	Ala	Tyr	Arg	Asn 230		Leu	Val	Asn	Ala 235	Pro	Leu	Ser	Arg	Le u 240
5		Glu	Ala	Gly	Ile	Ala 245	His	Ser	Tyr	Val	Ser 250	Gly	Asn	Thr	Val	Trp 255	Gln
10	,	Ala	Leu	Asp	Glu 260	Ser	Gln	Val	Gly	Trp 265	His	Thr	Ala	Asn	Gln 270	Ile	Gly
		Asn	Lys	Tyr 275	Tyr	Tyr	Gly	Ile	Glu 280	Val	Cys	Gln	Ser	Met 285	Gly	Ala	Asp
1 5		Asn	Ala 290	Thr	Phe	Leu	Lys	Asn 295	Glu	Gln	Ala	Thr	Phe 300	Gln	Glu	Cys	Ala
		Arg 305	Leu	Leu	Lys	Lys	Trp 310	Gly	Leu	Pro	Ala	As n 315	Arg	Asn	Thr	Ile	Arg 320
20		Leu	His	Asn	Glu	Phe 325	Thr	Ser	Thr	Ser	Cys 330	Pro	His	Arg	Ser	Ser 335	Val
		Leu	His	Thr	Gly 340	Phe	Asp	Pro	Val	Thr 345	Arg	Gly	Leu	Leu	Pro 350	Glu	Asp
25		Lys	Arg	Leu 355	Gln	Leu	Lys	Asp	Tyr 360	Phe	Ile	Lys	Gln	Ile 365	Arg	Ala	Tyr
10		Met	Asp 370	Gly	Lys	Ile	Pro	Val 375	Ala	Thr	Val	Ser	Asn 380	Glu	Ser	Ser	Ala
•		Ser 385	Ser	Asn	Thr	Val	Lys 390	Pro	Val	Ala	Ser	Ala 395	Trp	Lys	Arg	Asn	Lys 400
5		Tyr	Gly	Thr	Tyr	Tyr 405	Met	Glu	Glu	Ser	Ala 410	Arg	Phe	Thr	Asn	Gly 415	Asn
•		Ģln	Pro	Ile	Thr 420	Val	Arg	rys	Val	Gly- 425	Pro	Phe	Leu	Ser	Cys 430	Pro	Val
o		Gly	Tyr	Gln 435	Phe	Gln	Pro	Gly	Gly 440	Tyr	Cys	Asp	Tyr	Thr 445	Glu	Val	Met
		Leu	Gln 450	Asp	Gly	His	Val	Trp 455	Val	Gly	Tyr	Thr	Trp 460	Glu	Gly	Gln	Arg
5		Tyr 465	Tyr	Leu	Pro	Ile	Arg 470	Thr	Trp	Asn	Gly	Ser 475	Ala	Pro	Pro	Asn	Gln .480
		Ile	Leu	Gly	Asp	Leu 485	_	Gly	Glu	Ile	Ser 490	•					
0	(2)	INFOR	ITAMS	ON E	OR S	EQ I	D NC	:521	.3 :								
		(i)	(B)	LEN	IGTH: PE: a	299 minc	ami aci	.no a	cids	;							
-			(C)	STF	ANDE	DNES	S: s	ingl	.e								

(ii) MOLECULE TYPE: protein

	(xi)	SEQ	UENC	E DE	SCRI!	PTIO:	N: S	EQ I	D NO	:521	3 :					
10	Gly 1	Asp	Lys	Met	Asn 5	Lys	Il,e	Ser	Lys	Tyr 10	Ile	Ala	Ile	Ala	Ser 15	Leu
	Ser	Val	Ala	Val 20	Thr	Val	Ser	Ala	Pro 25	Gln	Thr	Thr	Asn	Ser 30	Thr	Ala
15	Phe	Ala	Lys 35	Ser	Ser	Ala	Glu	Val	Gln	Gln	Thr	Gln	Gln 45	Ala	Ser	Ile
	Pro	Ala 50	Ser	Gln	Lys	Ala	Asn 55	Leu	Gly	Asn	Gln	Asn 60	Ile	Met	Ala	Val
20	Ala 65	Trp	Tyr	Gln	Asn	Ser 70	Ala	Glu	Ala	Lys	Ala 75	Leu	Tyr	Leu	Gln	Gly 80
25	Tyr	Asn	Ser	Ala	Lys 85	Thr	Gln	Leu	Asp	Lys 90	Glu	Ile	Lys	Lys	Asn 95	Lys
,	Gly	Lys	His	Lys 100	Leu	Ala	Ile	Ala	Leu 105	Asp	Leu	Asp	Glu	Thr 110	Val	Leu
30	Asp	Asn	Ser 115	Pro	Tyr	Gln	Gly	Tyr 120	Ala	Ser	Ile	His	Asn 125	Lys	Pro	Phe
	Pro	Glu 130	Gly	Trp	His	Glu	Trp 135	Val	Gln	Ala	Ala	Lys 140	Ala	Lys	Pro	Val
35	Tyr 145	Gly	Ala	Lys	Glu	Phe 150	Leu	Lys	Tyr	Ala	Asp 155	Lys	Lys	Gly	Val	Asp 160
	Ile	Tyr	Tyr	Ile	Ser 165	Asp	Arg	Asp	Lys	Glu 170	Lys	Asp	Leu	_	Ala 175	Thr
	Gln	Lys	Asn	Leu 180	Lys	Gln	Gln	Gly	Ile 185	Pro	Gln	Ala	Lys	Lys 190	Ser	His
45	Ile	Leu	Leu 195	Lys	Gly	Lys	Asp	Asp 200	Lys	Ser	Lys	Glu	Ser 205	Arg	Arg	Gln
	Met	Val 210	Gln	Lys	Asp	His	Lys 215	Leu	Val	Met	Leu	Phe 220	Gly	Asp	Asn	Leu
50	Leu 225	Asp	Phe	Thr	Asp	Pro 230	Lys	Glu	Ala	Thr	Ala 235	Glu	Ser	Arg.	Glu	Ala 240
	Leu	Ile	Glu	Lys [']	His 245	Lys	Asp	Asp	Phe	Gly 250	Lys	Lys	Tyr	Ile	Ile 255	Phe
55 · .	Pro	Asn	Pro	Met 260	Тут	Gly	Ser	Trp	Glu 265	Ala	Thr	Ile	Tyr	Asn 270	Asn	Asn

-		Lys	290		Asp	Pro	Lys	Thr 295		Glu	Val	Lys					
	(2)	INFO	RMAT	ION.	FOR	SEQ	ID N	0:52	14:			•					
0		(i)	(A (B (C) LE) TY) ST	NGTH PE: RAND	: 17 amin EDNE	8 am	sing	acid	S							
5		(ii)	MOL	ECUL	E TY	PE:	prot	ein		•							
	•	(x i)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	:521	4:					
0		Leu 1	Asn	Lys	Cys	Lys 5	Ile	Ile	Ile	Trp	Arg 10	Ile	Ile	Asn	Met	Lys 15	Asn
		Lys	Leu	Ile	Ala 20	Lys	Ser	Leu	Leu	Thr 25	Leu	Ala	Alá	Ile	Gly 30	Ile	Thr
5		Thr	Thr	Thr 35	Ile	Ala	Ser	Thr	Ala 40	Asp	Ala	Ser	Glu	Gly	Tyr	Gly	Pro
0		Arg	Glu 50	Lys	Lys	Pro	Val	Ser 55	Ile	Asn	His	Asn	Ile 60	Val	Glu	Tyr	Asn
		Asp 65	Gly	Thr	Phe	Lys	Tyr 70	Gln	Ser	Arg	Pro	Lys 75	Phe	Asn	Ser	Thr	Pro 80
5 .		Lys	Tyr	Ile	Lys	Phe 85	Lys	His	Asp	Tyr	Asn 90	Ile	Leu	Glu	Phe	Asn 95	Asp
		Gly	Thr	Phe	Glu 100	Tyr	Gly	Ala	Arg	Pro 105	Gln	Phe	Asn	Lys	Pro 110		Ala
D		Lys	Thr	As p 115	Ala	Thr	Ile	Lys	Lys 120	Glu	Gln	Lys	Leu	Ile 125	Gln	Ala	Gln
		Asn	Leu 130	Val	Arg	Glu	Phe	Glu 135	Lys	Thr	His	Thr	Val .140	Ser	Ala	His	Arg
5		Lys . 145	Ala	Gln	Lys	Ala	Val 150	Asn	Leu	Val	Ser	Phe 155	Glu	Tyr	Lys	Val	Lys 160
9		Lys	Met	Val	Leu	Gln 165	Glu	Arg	Ile	Asp	Asn 170	Val	Leu	Lys	Gln	Gly 175	Leu
		Val	Lys														٠.
_	(2)	INFOR	RMATI	ON E	FOR S	SEQ :	ID NO	D:521	L5 :					•			
5		(i _.)	SEQU	ENCE	E CHA	ARAC:	reris	STICS	3 :								

(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

5		(ii)	MOL	ECUL:	E TY	PE:	prot	ein	-								•
		·										٠					
10		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 521	5 :					
		Lys 1	Glu	Arg	Val	Leu 5	Met	Lys	Lys	Leu	Leu 10	Thr	Ala	Ser	Ile	Ile 15	Ala
15		Cys	Ser	Val	Val 20	Met	Gly	Val	Gly	Leu 25	Val	Asn	Thr	Ser	Ala 30	Glu	Ala
		Ala	Ser	Gly 35	Asn	Ser	Ile	Asp	Thr 40	Val	Lys	Gln	Leu	Ile 45	Lys	Gly	Asp
20		Gln	Ser 50	Leu	Glu	Asn	Val	Lys 55	Ile	Gly	Glu	Ser	Ile 60	Lys	Asp	Val	Leu
25		Thr 65	Lys	Tyr	Lys	Asn	Pro 70	Met	Tyr	Ser	Tyr	Asn 75	Glu	Asp	Gly	Thr	Glu 80
25		His	Tyr	Tyr	Glu	Phe 85	His	Thr	Lys	Lys	Gly 90	Met	Leu	Leu	Val	Thr 95	Thr
30		Asp	Gly	Lys	Lys 100	Asn	Asn	Gly	Lys	Val 105	Thr	His	Ile	Ser	Met 110	Met	Tyr
		Asn	Asp	Ala 115	Asn	Gly	Pro	Thr	Tyr 120	Gln	Ala	Val	Lys	As n 125	Tyr	Val	Gly
<i>35</i>		Lys	Ala 130	Val	Thr	His	Thr	Glu 135	Tyr	Ser	Lys	Val	Ala 140	Gly	Asn	Phe	Gly
		Tyr 145	Ile	Glu	Lys	Gly	Lys 150	Thr	Thr	Tyr	Gln	Phe 155	Ala	Ser	Ala	Pro	Lys 160
40		Asp	Lys	Asn	Ile	Lys 165	Leu	Tyr	Arg	Ile	Asp 170	Leu	Glu	Lys			
	(2·)	INFO	RMAT:	ION I	FOR S	SEQ :	ID N	5:52	16:			÷					
45		(i)	(A) (B) (C)	LEI TYI	NGTH PE: a RANDI	ARACT 16' amino EDNE: GY:	7 am: 5 ac: 5S: 1	ino a id sing:	acida	5							
50		(ii)	MOL	ECULI	E TY	PE:]	prote	ein									

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5216:

*5*5

	1				5					10					15	
5	Ası	Glu	Asp	Gly 20	Ser	Lys	Lys	Lys	Met 25	Ser	Thr	Thr	Ala	Lys 30	Val	Val
	Ser	Ile	Ala 35	Thr	Val	Leu	Leu	Leu 40	Leu	Gly	Gly	Leu	Val 45	Phe	Ala	Ile
10	Phe	Ala 50	Tyr	Val	Asp	His	Ser 55	Asn	Lys	Ala	Lys	Glu 60	Arg	Met	Leu	Asn
•	Glu 65	Gln	Lys	Gln	Glu	Gln 70	Lys	Glu	Lys	Arg	Gln 75	Lys	Glu	Asn	Ala	Glu 80
15	Lys	Glu	Arg	Lys	Lys 85	Lys	Gln	Gln	Glu	Glu 90	Lys	Glu	Gln	Asn	Glu 95	Leu
	Asp	Ser	Gln	Ala 100	Asn	Gln	Tyr	Gln	Gln 105	Leu	Pro	Gln	Gln	Asn 110	Gln	Tyr
20	Gln	Tyr	Val 115	Pro	Pro	Gln	Gln	Gln 120	Ala	Pro	Thr	Lys	Gln 125	Arg	Pro	Ala
25	Lys	Glu 130	Glu	Asn	Asp	Asp	Lys 135	Ala	Ser	Lys	Asp	Glu 140	Ser	Lys	Asp	Lys
	As p 145	Asp	Lys	Ala	Ser	Gln 150	Asp	Lys	Ser	Asp	As p 155	Asn	Gln	Lys	Lys	Thr 160
30	Asp	Asp	Asn	Lys	Gln 165	Pro	Ala									٠.
	(2) INFO	RMAT]	ON F	OR S	SEQ I	D NC	:521	7:								
35	(i) [*]	(B)	LEN TYP STR	IGTH: PE: & CANDE	115 mino DNES	TERIS ami aci SS: s	no a d ingl	cids	,	·			:			
40	(ii)	MOLE	CULE	TYF	E: p	rote	in				٠.		٠			
15	(x i)	SEQU	ENCE	DES	CRIF	TION	: SE	Q II	N O:	5217	' :					
. •	Met 1	Lys	Arg	Asn	Phe 5	Pro	Lys	Leu	Ile	Ala 10	Leu	Ser	Leu	Ile	Phe 15	Ser
50	Leu	Ser	Val	Thr 20	Pro	Ile	Ala	Asn	Ala 25	Glu	Ser	Asn	Ser	Asn 30	Ile	Lys
	Ala	Lys	Asp 35	Lys	Lys	His	Val	Gln 40	Val	Asn	Val	Glu	Asp 45	Lys	Ser	Val
5 <i>5</i>	Pro	Thr 50	Asp	Val	Arg	Asn	Leu 55	Ala	Gln	Lys	qeA	Tyr 60	Leu	Ser	Tyr	Val

		65			•		70					75					80
5		Gly	Glu	Pro	Phe	Lys 85	Ile	Tyr	Lys	Phe	Asn 90	Lys	Lys	Ser	Asp	Gly 95	Asn
		Tyr	Tyr	Phe	Pro 100	Val	Leu	Asn	Thr	Glu 105	Gly	Asn	Ile	Asp	Tyr 110	Ile	Val
10		Thr	Ile	Ser 115										•	r		
	(2)	INFO	RMAT:	ION :	FOR S	SEQ :	ID NO	0:52	18:								
15		(i)	(B)	UENC) LEI) TY:) STI) TO:	NGTH PE: 8 RANDI	: 17: amino EDNE:	am: cac: SS: 8	ino a id sing:	acid	5	-						
20		(ii)	MOL	ECUL	E TYI	PE:]	prote	ein									
												·.					
25		(xi)	SEQ	JENCI	E DES	SCRI	PTION	N: SI	EQ II	ON C	:5218	3 :					
		Asn 1	Phe	Lys	Met	Gln 5	Glu	Val	Lys	Tyr	Met 10	Thr	Glu	Ile	Thr	Phe 15	Lys
30		Gly	Gly	Pro	Ile 20	His	Leu	Lys	Gly	Gln 25	Gln	Ile	Asn	Glu	Gly 30	Asp	Phe
		Ala	Pro	Asp 35	Phe	Thr	Val	Leu	Asp 40	Asn	Asp	Leu	Asn	Gln 45	Val	Thr	Leu
35		Ala	Asp 50	Tyr	Ala	Gly	Lys	Lys 55	Lys	Leu	Ile	Ser	Val	Val	Pro	Ser	Ile
		Asp 65	Thr	Gly	Val	Cys	Asp 70	Gln	Gln	Thr	Arg	Lys 75	Phe	Asn	Ser	qaA	Ala 80
40		Ser	Lys	Glu	Glu	Gly 85	Ile	Val	Leu	Thr	Ile 90	Ser	Ala	Asp	Leu	Pro 95	Phe
		Ala	Gln	Lys	Arg 100	Trp	Cys	Ala	Ser	Ala 105	Gly	Leu	Asp	Asn	Val 110	Iļe	Thr
45		Leu	Ser	Asp 115	His	Arg	Asp	Leu	Ser 120	Phe	Gly	Glu	Asn	Tyr 125	Gly	Val	Val
50		Met	Glu 130	Glu	Leu	Arg	Leu	Leu 135	Ala	Arg	Ala	Val	Phe 140	Val	Leu	Asp	Ala
		Asp 145	Asn	Lys	Val	Val	Tyr 150	Lys	Glu	Ile	Val	Ser 155	Glu	Gly	Thr	Asp	Phe 160
55		Pro	Asp	Phe	Asp	Ala	Ala	Leu	Ala	Ala	Tyr	Lys	Asn	Ile			

5		(1)	(B) LEI) TY:) ST:) TO:	NGTH PE: (RAND)	: 13 amin EDNE	9 am: 0 ac: 55: :	ino a id sing:	acid	S								•
		(ii)	MOL	ECUL:	E TY	PE: j	prote	ein										
0							•											
		(xi)	SEQ	UENC	E DE	SCRI:	PTIO	N: S1	EQ II	ON O	:521	9:						
5		Ile 1	Glu	Ser	Arg	Phe 5	Ile	Met	Ala	Lys	Ile 10	Asn	Phe	Asp	Ala	Ala 15	Thr	
*		Lys	Gly	Asn	Pro 20	Gly	Ile	Ser	Thr	Cys 25	Ala	Ile	Val	Ile	Lys 30	Glu	Asp	
20		Glu	Gln	His 35	Tyr	Thr	Tyr	Thr	His 40	Glu	Leu	Gly	Glu	Met 45	Asp	Asn	His	
_		Thr	Ala 50	Glu	Trp	Ala	Ala	Cys 55	Ile	Tyr	Ala	Leu	Glu 60	His	Ala	Arg	Glu	
95		Leu 65	Asn	Val	Gln	Asn	Ala 70	Leu	Leu	Tyr	Thr	Asp 75	Ser	Lys	Leu	Ile	Ala 80	
0		Asp	Ser	Ile	Glu	Ala 85	Gly	Tyr	Val	Lys	Asn 90	Ala	Asn	Phe	Lys	Pro 95	Tyr	
		Phe	Asp	Gln	Ile 100	Glu	Ile	Phe	Glu	Lys 105	Asp	Phe	Asp	Leu	Leu 110	Phe	Val	
5		Lys	Trp	Ile 115	Pro	Arg	Glu	Gln	Asn 120	Lys	Glu	Ala	Asn	Gln 125		Ala	Gln	
		Gln	Ala 130	Leu	Tyr	Lys	Leu	Ile 135	Lys	Lys	Asn	Lys						
0	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	D NO	522	20:							-		
	•	(i)		JENCI LEI TYI	IGTH	: 162	ami	ino a		5								
5		•	(C)	STE TO	IDNAS	EDNES	3S: 8	singl	le				•					
		(ii)	MOL	ECULI	E TYI	PE: p	prote	ein										
o .																		
	•	(xi)	SEQ	JENCI	E DES	SCRII	PTION	1: SI	EQ II	NO:	: 5220):						
5		Met 1	Pro	Gly	Thr	Val 5	Leu	Asp	Pro	Gln	Met 10	Ile	Lys ,	Asn	Glu	Asp 15	Val	

					[20					25					30		
5		Gly	Val	Asn 35	Thr	Ser	Met	Asp	Trp 40	Asp	Arg	Lys	Tyr	Pro 45	Tyr	Gly	Asp
		Thr	Leu 50	Arg	Gly	Ile	Phe	Gly 55	Asp	Val	Ser	Thr	Pro 60	Ala	Glu	Gly	Ile
10		Pro 65	Lys	Glu	Leu	Thr	Glu 70	His	Tyr	Leu	Ser	Lys 75	Gly	Tyr	Ser	Arg	Asn 80
		Asp	Arg	Val	Gly	Lys 85	Ser	Tyr	Leu	Glu	Tyr 90	Gln	Tyr	Glu	Asp	Val 95	Leu
15		Arg	Gly	Lys	Lys 100	Lys	Glu	Met	Lys	Tyr 105	Thr	Thr	Asp	Lys	Ser 110	Gly	Lys
		Val	Thr	Ser 115	Ser	Glu	Val	Leu	Xaa 120	Pro	Gly	Ala	Arg	Gly 125	Gln	Asp	Leu
20		Lys	Leu 130	Thr	Ile	Asp	Ile	Asp 135	Leu	Gln	Lys	Glu	Val 140	Glu	Ala	Leu	Leu
25		Asp 145	Lys	Gln	Ile	Lys	Lys 150	Leu	Ala	Val	Lys	Val 155	Pro	Lys	Ile	Trp	Ile 160
		Met	Gln							ē							
	(2)	INFO	TAMS	ION I	FOR S	SEQ :	ID NO	522	21:								
30		(i)	(B)	LEI TYI	NGTH:	: 31: amino	ami aci	ino a	acids								
35		(ii)	(D)	TO	POLO	3Y: :	linea	ar	LE		•						
			PIODI	30011		,											
40		(xi)	SEQU	JENCI	E DES	SCRI	TION	N: SI	EQ II	NO:	522	L:			•		
		Ile 1	Met	Ala	Tyr	Asp 5	Gly	Leu	Phe	Thr	Lys 10	Lys	Met	Val	Glu	Ser 15	Leu
45		Gln	Phe	Leu	Thr 20	Thr	Gly	Arg	Val	His 25	Lys	Ile	Asn	Gln	Pro 30	Asp	Asn
50	<i>,</i>	Asp	Thr	Ile 35	Leu	Met	Val	Val	Arg 40	Gln	Asn	Arg	Gln	Asn 45	His	Gln	Leu
		Leu	Le u 50	Ser	Ile	His	Pro	Asn 55	Phe	Ser.	Arg	Leu	Gln 60	Leu	Thr	Thr	Lys
<i>55</i>		Lys 65	Tyr	Asp	Asn	Pro	Phe 70	Asn	Pro	Pro	Met	Phe 75	Ala	Arg	Val	Phe	Arg 80

,						85					90					.95	
5		Asp	Arg	Arg	Ile 100	Glu	Ile	Asp	Ile	Lys 105	Ser	Lys	Asp	Glu	Ile 110	Gly	Asp
		Thr	Ile	Tyr 115	Arg	Thr	Val	Ile	Leu 120	Glu	Ile	Met	Gly	Lys 125	His	Ser	Asn
10		Leu	Ile 130	Leu	Val	Asp	Glu	As n 135	Arg	Lys	Ile	Ile	Glu 140	Gly	Phe	Lys	His
		Leu 145	Thr	Pro	Asn	Thr	Asn 150	His	Tyr	Arg	Thr	Val 155	Met	Pro	Gly	Phe	Asn 160
15		Tyr	Glu	Ala	Pro	Pro 165	Thr	Gln	His	Lys	Ile 170	Asn	Pro	Tyr	Asp	Ile 175	Thr
	•	Gly	Ala	Glu	Val 180	Leu	Lys	Tyr	Ile	Asp 185	Phe	Asn	Ala	Gly	Asn 190	Ile	Ala
20		Lys	Gln	Leu 195	Leu	Asn	Gln	Phe	Glu 200	Gly	Phe	Ser	Pro	Leu 205	Ile	Thr	Asn
25		Glu	Ile 210	Val	Ser	Arg	Arg	Gln 215	Phe	Met	Thr	Ser	Ser 220	Thr	Leu	Pro	Glu
	·	Ala 225	Phe	Asp	Glu	Val	M et 230	Ala	Glu	Thr	Lys	Leu 235	Pro	Pro	Thr	Pro	Ile 240
30		Phe	His	Lys	Asn	His 245	Glu	Thr	Gly	Lys	Glu 250	Asp	Phe	Tyr	Phe	Ile 255	Lys
		Leu	Asn	Gln	Phe 260	Asn	Asp	Asp	Thr	Val 265	Thr	Tyr	Asp	Ser	Leu 270	Asn	Asp
3 <i>5</i>		Leu	Leu	Asp 275	Arg	Phe	Tyr	Asp	Ala 280	Arg	Gly	Glu	Arg	Glu 285		Val	Lys
		Gln	Arg 290	Ala	Asn	Asp	Leu	Val 295	Arg	Phe	Val	Gln	Gln 300	Gln	Leu	His	Lys
40		Tyr 305	Gln	Asn	Lys	Leu	Ala 310	Ser							-		
	(2)	INFOR	ITAMS	ON F	OR S	EQ I	D NC	:522	22:								
15		(i)	(A) (B) (C)	JENCE LEN TYP STR TOP	IGTH: PE: a PANDE	245 minc DNES	ami aci S: s	.no a .d :ingl	cids		·					:	
50		(ii)	MOLE	CULE	TYF	E: p	rote	in					•				
										•							

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5222:

55

	ě	1				5					10			.*		15	•
5		Glu	Gln	Leu	Tyr 20	Gly	Glu	Leu	Ile	Thr 25	Ala	Asn	Ile	Tyr	Arg 30	Ile	Lys
		Gln	Gly	Asp 35	Lys	Glu	Val	Thr	Ala 40	Leu	Asn	Tyr	Tyr	Thr 45	Asn	Glu	Glu
10		Val	Val	Ile	Pro	Leu	Asn	Pro 55	Thr	Lys	Ser	Pro	Ser	Ala	Asn	Ala	Gln
		Tyr 65	Tyr	Tyr	Lys	Gln	Tyr 70	Xaa	Arg	Met	Lys	Thr 75	Arg	Xaa	Arg	Glu	Leu 80
15		Gln	His	Gln	Ile	Gln 85	Leu	Thr	Lys	Asp	Asn 90	Ile	Asp	Tyr	Phe	Ser 95	Thr
20		Ile	Glu	Gln	Gln 100	Leu	His	His	Ile	Ser 105	Val	His	Asp	Ile	Asp 110	Glu ,	Ile
·		Arg	Asp	Glu 115	Leu	Ala	Glu	Gln	Gly 120	Phe	Met	Lys	Gln	Arg 125	Lys	Asn	Gln
<i>25</i>		Thr	Lys 130	_	Lys	Lys	Ala	Gln 135	Ile	Gln	Leu	Gln	His 140	Tyr	Val	Ser	Thr
		145	-	-	-		150		_	-		155	•			Asp	160
30		Leu	Thr	Asn	Lys	Lys 165		Lys	Lys	Thr	His 170	Thr	Trp	Leu	His	Thr 175	Lys
35		Asp	Ile	Pro	Gly 180	Ser	His	Val	Val	Ile 185	Phe	Asn	Asp	Ala	Pro 190	Ser	Asp
•				195	-				200			_	_	205		Lys	
40		:	.210		_			215		_			220			Asn	-
		His 225	Lys	Pro	Ser	Gly	Ala 230	Lys	Pro	Gly	Phe	Val 235	Thr	Tyr	Asp	Asn	Gln 240
45		_		Leu	-	245											
	(2)	INFOR	TAMS	ON F	FOR S	SEQ 3	D NO	:522	23 :			•					
50		(i)	(A) (B) (C)	JENCE LEN TYF STF TOF	IGTH: PE: & RANDE	99 mino EDNES	amin aci SS: s	no ac id singl	cids							,	
55		(ii)	MOLE	CULE	TYI	PE: p	rote	ein									

		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	:522	3:					
5		Tyr 1	Ile	Thr	Asn	Pro 5	Gln	Asn	Pro	Lys	Ile 10	Lys	Ile	Thr	Gly	Ile 15	Ser
		Leu	Ser	Sér	Gly 20	Val	Gly	Asn	Phe	Phe 25	Ile	Ile	Thr	Asn	Gly 30	Lys	Arg
10		Ile	Ile	Val 35	Ala	Lys	Ile	Lys	Arg 40	Asn	Ala	Asp	Asn	Asp 45	Ser	Ala	Lev
	•	Lys	Ser 50	Phe	Asn	Ala	Ile	Phe 55	Ile	Ile	Gly	Asn	Ala 60	Asp	Pro	His	Asr
15	•	Met 65	Ile	Val	Asn	Lys	Tyr 70	Asp	Arg	Lys	Val	Val 75	Ser	Arg	Ser	Leu	Phe 80
	•	Ile	Asn	Ile	Ile	Thr 85	Pro	Leu	Ile	Met	Cys 90	Phe	Tyr	Ile	Lys	Lys 95	Tyr
?0		Asp	Leu	Lys			٠.									•	
	(2)	INFO	RMAT:	ION	FOR I	SEQ :	ID N	0:52	24:								
25		(i)	(B)	LE TY	NGTH PE: : RANDI	: 13: amino EDNE:	lam: cac: SS: s	ino a id sing:	acid	5							
30 .				,	POLO												
		(ii)	MOLI	ECUL:	E TY	PE: I	prote	≥in									
15		(xi)	SEQ	JENCI	E DES	SCRI	PTIO	N: SI	EQ II	O NO	: 5224	! :					
		Glu 1	Asn	Val	Leu	Ala 5	Lys	Glu	Tyr	Ala	Val 10	Lys	Tyr	Asn		Val 15	Glu
0	,	Ala	Ile	Gln	His 20	Arg	Gly	Glu	Thr	Val 25	Thr	Glu	Gly	Ser	Ser 30	Ser	Asn
5		Ala	Tyr	Ala 35	Ile	Lys	Asp	Gly	Val 40	Ile	Tyr	Thr	His	Pro 45	Ile	Asn	Asn
		Tyr	Ile 50	Leu	Asn	Gly	Ile	Thr 55	Arg	Ile	Val	Ile	Lys 60	Lys	Ile	Ala	Glu
· o		Asp 65	Tyr	Asn	Ile	Pro	Phe 70	Lys	Glu	Glu	Thr	Phe 75	Thr	Val	Asp	Phe	Leu 80
		Lys	Asn	Ala	Asp	Glu 85	Val	Ile	Val	Ser	Ser 90	Thr	Ser	Ala	Glu	Val 95	Thr
5		Pro	Val	Ile	Lys 100	Leu	qaA	Gly	Glu	Pro 105	Val	Asn	Asp	Gly	Lys 110	Val	Gly

				113					120		•			125			
5		His	Ser 130	Ile													
	(2)	INFO	RMAT	'ION	FOR	SEQ	ID N	0:52	25:				•				
10		(i)	(A (B (C	UENC) LE) TY) ST) TO	ngth PE : RAND	: 54 amin EDNE	0 am o ac SS:	ino id sing	acid	s							
15		(i i)	MOL	ECUL	E TY	PE:	prot	ein		•							
		(xi)	SEQ	UENC:	E DE	SCRI:	PTIO	N: S	EQ I	D NO	: 522	5 :					
20	•	Asn 1	His	Leu	Thr	Ala 5	Arg	Ile	Ile	Asn	Gln 10	Glu	Asp	Asp	Leu	Met 15	Asn
25		Leu	Phe	Arg	Gln 20	Gln	Lys	Phe	Ser	Ile 25	Arg	Lys	Phe	Asn	Val 30	Gly	Ile
	•	Phe	Ser	Ala 35	Leu	Ile	Ala	Thr	Val	Thr	Phe	Ile	Ser	Thr 45	Asn	Pro	Thr
30		Thr	Ala 50	Ser	Ala	Ala	Glu	Gln 55	Asn	Gln	Pro	Ala	Gln 60	Asn	Gln	Pro	Ala
		Gln 65	Pro	Ala	Asp	Ala	Asn 70	Thr	Gln	Pro	Asn	Ala 75	Asn	Ala	Gly	Ala	Gln 80
35		Ala	Asn	Pro	Thr	Ala 85	Gln	Pro	Ala	Ala	Pro 90	Ala	Asn	Gln	Gly	Gln 95	Pro
		Ala	Val	Gln	Pro 100	Ala	Asn	Gln	Gly	Gly 105	Gln	Ala	Asn	Pro	Ala 110	-	Gly
40		Ala	Ala	Gln 115	Pro	Asn	Thr	Gln	Pro 120	Ala	Gly	Gln	Gly	Asp 125	Gln	Ala	Asp
45		Pro	Asn 130	Asn	Ala	Ala	Gln	Ala 135	Gln	Pro	Gly	Asn	Gln 140	Ala	Thr	Pro	Ala
		Asn 145	Gln	Ala	Gly	Gln	Gly 150	Asn	Asn	Gln	Ala	Thr 155	Pro	Asn	Asn	Asn	Ala 160
50		Thr	Pro	Ala	Asn	Gln 165	Thr	Gln	Pro	Ala	Asn 170	Ala	Pro	Ala	Ala	Ala 175	Gln
	,	Pro	Ala	Ala	Pro 180	Val	Ala	Ala	Asn	Ala 185	Gln	Thr	Gln	Asp	Pro 190	Asn	Ala
5 5		Ser	Asn	Thr 195	Gly	Glu	Gly	Ser	Ile 200	Asn	Thr	Thr	Leu	Thr 205	Phe	Asp	Asp

			210					215					220				
5		hr 225	Asp	Lys	Val	Asn	Gly 230	Tyr	Ser	Leu	Ile	Asn 235	Asn	Gly	Lys	Ile	Gly 240
	F	he	Val	Asn	Ser	Glu 245	Leu	Arg	Arg	Ser	Asp 250	Met	Phe	Asp	Lys	Asn 255	Asn
10	P	ro	Gln	Asn	Tyr 260	Gln	Ala	Lys	Gly	Asn 265	Val	Ala	Ala	Leu	Gly 270	Arg	Val
	A	sn	Ala	Asn 275	Asp	Ser	Thr	Asp	His 280	Gly	Asn	Phe	Asn	Gly 285	Ile	Ser	Lys
15	T	hr	Val 290	Asn	Val	Lys	Pro	Asp 295	Ser	Glu	Leu	Ile	Ile 300	Asn	Phe	Thr	Thr
•		let 05	Gln	Thr	Asn	Ser	Lys 310	Gln	Gly	Ala	Thr	Asn 315	Leu	Val	Ile	Lys	Asp 320
20	A	la	Lys	Lys	Asn	Thr 325	Glu	Leu	Ala	Thr	Val 330	Asn	Val	Ala	Lys	Thr 335	Gly
25	T	'hr	Ala	His	Leu 340	Phe	ΓXa	Val	Pro	Thr 345	Asp	Ala	Asp	Arg	Leu 350	Asp	Leu
	G	ln	Phe	Ile 355	Pro	Asp	Asn	Thr	Ala 360	Val	Ala	Asp	Ala	Ser 365	Arg	Ile	Thr
30	T	hr	Asn 370	Lys	Asp	Gly	Tyr	Lys 375	Tyr	Tyr	Ser	Phe	Ile 380	Asp	Asn	Val	Gly
		eu 85	Phe	Ser	Gly	Ser	His 390	Leu	Tyr	Val	Lys	As n 395	Arg	Asp	Leu	Ala	Pro 400
<i>35</i>	L	ys	Ala	Thr	Asn	As n 405	Lys	Glu	Tyr	Thr	Ile 410	Asn	Thr	Glu	Ile	Gly 415	Asn
	A	sn	Gly	Asn	Phe 420	Gly	Ala	Ser	Leu	Lys 425	Ala	Asp	Gln	Phe	Lys 430	Tyr	Glu
40	V	al	Thr	Leu 435	Pro	Gln	Gl <u>y</u>	Val	Thr 440	Tyr	Val	Asn	Asn	Ser 445	Leu	Thr	Thr
45	T		Phe 450	Pro	Asn	Gly	Asn	Glu 455	Aap	Ser	Thr	Val	Leu 460	Lys	Asn	Met	Thr
40		al . 65	Asn	Tyr	Asp	Gln	Asn 470	Ala	Asn	Lys	Val	Thr 475		Thr	Ser		Gly 480
50	V	al	Thr	Thr	Ala	Arg 485	Gly	Thr	His	Thr	Lys 490	Glu	Val	Leu	Phe	Pro 495	Asp
	L	ys	Ser	Leu	Lys 500	Leu	Ser	Tyr	Lys	Val 505	Asn	Val	Ala	Asn	Ile 510	Asp	Thr
<i>55</i>	P	ro i		Asn 515	Ile	Asp	Phe .	Asn	Glu 520	Lys	Leu	Thr	Tyr	Arg 525	Thr	Ala	Ser

540

535

:530

	(2)	INFO	RMAT	ION :	FOR S	SEQ	ID N	0:52	26:								
<i>5</i>		(i)	(A (B (C	UENC) LE) TY) ST) TO	NGTH PE: 8 R AN DI	: 17 amin EDNE:	7 am 5 ac: SS: 8	ino i id sing:	acid	5							
10		(ii)	MOLJ	ECUL	E TY	PE: j	prote	ein									
15		(xi)	SEQ	JENC	E DES	SCRI	PTIO	N: S	EQ II	ONO:	: 522(6:	٠				
		Tyr 1	Lys	Glu	Leu	Ser 5	His	Gly	Arg	Leu	Ile 10	Gly	Gly	Thr	Lys	Met 15	His
20		Lys	Lys	Tyr	Phe 20	Ile	Gly	Thr	Ser	Ile 25	Leu	Ile	Ala	Val	Phe 30	Val	Val
		Ile	Phe	Asp 35	Gln	Val	Thr	Lys	Tyr 40	Ile	Ile	Ala	Thr	Thr 45	Met	Lys	Ile
25		Gly	As p 50	Ser	Pḥe	Glu	Val	Ile 55	Pro	His	Phe	Leu	Asn 60	Ile	Thr	Ser	His
30		Arg 65	Asn	Asn	Gly	Ala	Ala 70	Trp	Gly	Ile	Leu	Ser 75	Gly	Lys	Met	Thr	Phe 80
		Phe	Phe	Ile	Ile	Thr 85	Ile	Ile	Ile	Leu	Ile 90	Ala	Leu	Val	Tyr	Phe 95	Phe
35		Ile	Lys	Asp	Ala 100	Gln	Tyr	Asn	Leu	Phe 105	Met	Gln	Val	Ala	Ile 110	Ser	Leu
		Leu	Phe	Ala 115	Gly	Ala	Leu	Gly	Asn 120	Phe	Ile	Asp	Arg	Ile 125	Leu	Thr	Gly
40		Glu	Val 130	Val	Asp	Phe	Ile	Asp 135	Thr	Asn	Ile	Phe	Gly 140	Tyr	Asp	Phe	Pro
		Ile 145	Phe	Asn	Ile	Ala	Asp 150	Ser	Ser	Leu	Thr	Ile 155	Gly	Val	Ile	Leu	Ile 160
45		Ile	Ile	Ala	Leu	Leu 165	Lys	Asp	Thr	Ser	Asn 170	Lys	Lys	Glu	Lys	Glu 175	Val
	,	Lys		•							*						
50	(2)	INFOR	TAMS	ON E	FOR S	SEQ I	D N	522	27:								
<i>55</i>		(i)	(A) (B)	TYI	IGTH:	209 amino	ami aci	ino a	acids	;							
,			(C)	ST	CANDE	EUNES	S: 5	ing	ı.e								

(ii) MOLECULE TYPE: protein

•											-						
		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	on o	: 522	7:					
10		Ala 1	Gly	Lys	Ser	Ser 5	Leu	Ile	Lys	Ser	Leu 10	Ile	Gly	Glu	Phe	Asn 15	Ala
		Thr	Gly	Thr	Lys 20	Leu	Leu	Tyr	Asn	Lys 25	Pro	Ile	Gln	Gln	Gln 30	Leu	Gln
15		His	Ile	Thr 35	Tyr	Ile	Pro	Gln	Lys 40	Ala	His	Ile	Asp	Leu 45	Asp	Phe	Pro
		Ile	Ser 50	Val	Glu	Gln	Val	Ile 55	Leu	Ser	Gly	Cys	Tyr 60	Lys	Glu	Ile	Gly
20		Trp 65	Phe	Arg	Arg	Pro	Asn 70	Lys	Ser	Ala	Arg	Asp 75	Lys	Leu	Lys	Gln	Leu 80
		Leu	Ser	Asp	Leu	Glu 85	Leu	Glu	Ser		Arg 90	His	Arg	Gln	Ile	Ser 95	Glu
25	·	Leu	Ser	Gly	Gly 100	Gln	Leu	Gln	Arg	Val 105	Leu	Val	Ala	Arg	Ala 110	Leu	Met
30		Ser	Xaa	Ser 115	Glu	Val	Tyr	Phe	Leu 120	Asp	Glu	Pro	Phe	Val 125	Gly	Ile	Asp
•		Phe	Ser 130	Ser	Glu	Lys	Leu	Ile 135	Met	Thr	Lys	Ile	Glu 140	Asn	Leu	Lys	Gln
95		Gln 145	Gly	Lys	Leu	Ile	Leu 150	Ile	Ile	His	His	Asp 155	Leu	Ser	Lys	Ala	Lys 160
		Gln	Tyr	Phe	Asp	Arg 165	Ile	Ile	Leu	Leu	Asn 170	Gln	Thr	Léu	Arg	Tyr 175	Phe
10		Gly	Asp	Ser	Glu 180	Glu	Ala	Met	Ser	Val 185	Thr	Arg	Leu	Asn	Glu 190	Thr	Phe
		Met	Ser	Ser 195	Thr	Asp	Cys	Ser	Asp 200	Pro	Ser	Gln	Arg	Ser 205	Asn	Ile	Thr
15		Cys															
	(2)	INFOR	ITAM	ON F	OR S	EQ I	D NC	:522	8:								
50		(i)	(A) (B) (C)	LEN TYP STR	IGTH: PE: a LANDE	256 minc DNES	ERIS ami aci S: s	no a d ingl	cids	:							
5		(ii)	•														

	(***)	3EQ(DEMC1	: DE:	CKI	-1101	N. 31	2Q 11	100							
5	Thr 1	Phe	Arg	Ile	Ile	Phe	Leu	Leu	Ser	Ile 10	Arg	Lys	Arg	Ser	Asn 15	Arg
	Thr	His	Val	Ser 20	Ile	His	Trp	Ser	Thr 25	Val	Asn	Lys	Glu	Glu 30	Ile	Cys
10	Leu	Arg	Val 35	Lys	Asp	Asn	Leu	Gln 40	Gln	Ile	Ser	Thr	Gln 45	Ile	Asn	Asp
	Lys	Ser 50	Glu	Lys	Asn	Asn	Phe 55	Ser	Thr	Lys	Pro	Asn 60	Val	Ile	Ala	Val
15	Thr 65	Lys	Tyr	Val	Thr	Ile 70	Glu	Arg	Ala	Lys	Glu 75	Ala	Tyr	Glu	Ala	Gly 80
20	Ile	Arg	His	Phe	Gly 85	Glu	Asn	Arg	Leu	Glu 90	Gly	Phe	Phe	Gln	Lys 95	Lys
	Glu	Ala	Leu	Pro 100	Ser	Asp	Ala	Val	Ile 105	His	Phe	Ile	Gly	Ser 110	Leu	Gln
25	Ser	Arg	Lys 115	Val	Lys	Asp	Val	Ile 120		Asp	Val	Asp	Tyr 125	Phe	His	Ala
	Leu	Asp 130	Arg	Leu	Ser	Leu	Ala 135	Lys	Glu	Ile	Asn	Lys 140	Arg	Ala	Glu	His
30	Lys 145	Ile	Lys	Cys	Phe	Leu 150	Gln	Val	Asn	Val	Ser 155	Gly	Glu	Ala	Ser	Lys 160
3 <i>5</i>	His	Gly	Ile	Ala	Leu 165	Glu	Asp	Val	Asp	Gln 170	Phe	Ile	Asp	Asp	Leu 175	Lys
	Lys	Tyr	Asp	Lys 180	Ile	Glu	Ile	Val	Gly 185	Leu	Met	Thr	Met	Ala 190	Pro	Leu
40	Thr	Asp	Asp 195	Glu	Ala	Tyr	Ile	Arg 200	Ser	Leu	Phe	Lys	Gln 205	Leu	Arg	Leu
	Lys	Lys 210	Glu	Glu	Ile	Gln	Arg 215	Leu	Asn	Leu	Glu	Tyr 220	Ala	Pro	Cys	Asp
1 5	Glu 225	Leu	Ser	Met	Gly	Met 230	Ser	Asn	Asp	Tyr	Leu 235	Ile	Ala	Val	Glu	Glu 240
	Gly	Ala	Thr	Phe	Val 245	Arg	Ile	Gly	Thr	Lys 250	Leu	Val	Gly	Glu	Glu 255	Glu
50																

(2) INFORMATION FOR SEQ ID NO:5229:

55

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 246 amino acids
 (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(2) INFORMATION FOR SEQ ID NO:5230:

	(xi)	SEO	JENC	E DES	SCRI	PTIO	N: SI	EO II	O NO	:522	∍:					
10	-											Phe	Thr	Met	Lys 15	Lys
	Thr	Ile	Met	Ala 20	Ser	Ser	Leu	Ala	Val 25	Ala	Leu	Gly	Val	Thr 30	Gly	Tyr
15	Ala	Ala	Gly 35	Thr	Gly	His	Gln	Ala 40	His	Ala	Ala	Glu	Val 45	Asn	Val	Asp
20	Gln	Ala 50	His	Leu	Val	Asp	Leu 55	Ala	His	Asn	His	Gln 60	Asp	Gln	Leu	Asn
	Ala 65	Ala	Pro	Ile	Lys	Asp 70	Gly	Ala	Tyr	Asp	Ile 75	His	Phe	Val	Lys	Asp 80
25	Gly	Phe	Gln	Tyr	Asn 85	Phe	Thr	Ser	Asn	Gly 90	Thr	Thr	Trp	Ser	Trp 95	Ser
	Tyr	Glu	Ala	Ala 100	Asn	Gly	Gln	Thr	Ala 105	Gly	Phe	Ser	Asn	Val 110	Ala	Gly
30	Ala	Asp	Tyr 115	Thr	Thr	Ser	Tyr	Asn 120	Gln	Gly	Ser	Asn	Val 125	Gln	Ser	Val
	Ser	Tyr 130	Asn	Ala	Gln	Ser	Ser 135	Asn	Ser	Asn	Val	Glu 140	Ala	Val	Ser	Ala
<i>35</i> ′	Pro 145	Thr	Tyr	His	Asn	Tyr 150	Ser	Thr	Ser	Thr	Thr 155	Ser	Ser	Ser	Val	Arg 160
	Leu	Ser	Asn	Gly	Asn 165	Thr	Ala	Gly	Ala	Thr 170	Gly	Ser	Ser	Ala,	Ala 175	Gln
40	Ile	Met	Ala	Gln 180	Arg	Thr	Gly	·Val	Ser 185	Ala	Ser	Thr	Trp	Ala 190	Ala	Ile
<i>45</i>	Ile	Ala	Arg 195	Glu	Ser	Asn	Gly	Gln 200	Val	Asn	Ala	Tyr	Asn 205	Pro	Ser	Gly
	Ala	Ser 210	Gly	Leu	Phe	Gln	Thr 215	Met	Pro	Gly	Trp	Gly 220	Pro	Thr	Asn	Thr
50	Val 225	Asp	Gln	Gln	Ile	Asn 230	Ala	Ala	Val	Lys	Ala 235	Tyr	Lys	Ala	Gln	Gly 240
	Leu	Gly	Ala	Trp	Gly 245	Phe										
								_								

(A) LENGTH: 519 amino acids

(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

	(ii)	MOL	ECULI	E TY	PE:]	prote	ein									
							٠.									
10	(xi)	SEQ	JENCI	E DES	SCRII	PTIO	N: S1	EQ II	OM C	: 523):					
	Lys 1	Glu	Pro	His	Lys 5	Met	Lys	Lys	Ile	Tyr 10	Lys	Ser	Leu	Thr	Val 15	Ser
15	Ala	Ile	Val	Ala 20	Thr	Val	Ser	Leu	Ser 25	Ala	Leu	Pro	Gln	Ser 30	Leu	Ala
20	Ile	Thr	His 35	Glu	Ser	Gln	Pro	Thr 40	Lys	Gln	Gln	Arg	Thr 45	Val	Leu	Phe
	Asp	Arg 50	Ser	His	Gly	Gln	Thr 55	Ala	Gly	Ala	Ala	Asp 60	Trp	Val	Ser	Asp
25	Gly 65	Ala	Phe	Ser	Asp	Tyr 70	Ala	Asp	Ser	Ile	Gln 75	Lys	Gln	Gly	Tyr	Asp 80
	Val	Lys	Ala	Ile	Asp 85	Gly	His	Ser	Asn	Ile 90	Thr	Glu	Ala	Ser	Leu 95	Lys
30	Ser	Ser	Lys	Ile 100	Phe	Val	Ile	Pro	Glu 105	Ala	Asn	Ile	Pro	Phe 110	Lys	Glu
	Ser	Glu	Gln 115	Ala	Ala	Ile	Val	Lys 120	Tyr	Val	Lys	Gln	Gly 125	Gly	Asn	Val
35	Val	Phe 130	Ile	Ser	Asp	His	Tyr 135	Asn	Ala	Asp	Arg	Asn 140	Leu	Asn	Arg	Ile
	Asp 145	Ser	Ser	Glu	Ala	Met 150	Asn	Gly	Tyr	Arg	Arg 155	Gly	Ala	Tyr.	Glu	Asp
40	Met	Ser	Lys	Gly	Met 165	Asn	Ala	Glu	Glu	Lys 170	Ser	Ser	Thr	Ala	Met 175	Gln
45	Gly	Val	Lys	Ser 180	Ser	Asp	Trp	Leu	Ser 185	Thr	Asn	Phe	Gly	Val 190	Arg	Phe
	Arg	Tyr	Asn 195	Ala	Leu	Gly	Asp	Leu 200	Asn	Thr	Ser	Asn	lle 205	Val	Ser	Ser
50	Lys	Glu 210	Ser	Phe	Gly	Ile	Thr 215	Glu	Gly	Val	Lys	Ser 220	Val	Ser	Met	His
. •	Ala 225	Gly	Ser	Thr	Leu	Ala 230	Ile	Thr	Asn	Pro	Glu 235	Lys	Ala	Lys	Gly	Ile 240
55	Val	Tyr	Thr	Pro	Glu 245	Gln	Leu	Pro	Ala	Lys 250	Ser	Lys	Trp	Ser	His 255	Ala

	Val	Asp	Gln	Gly 260	Ile	Tyr	Asn	Gly	Gly 265	Gly	Lys	Ala	Glu	Gly 270	Pro	Tyr
5	Val	Ala	Ile 275	Ser	Lys	Val	Gly	Lys 280	Gly	Lys	Ala	Ala	Phe 285	Ile	Gly	Asp
	Ser	Ser 290	Leu	Val	Glu	Asp	Ser 295	Ser	Pro	Lys	Tyr	Val 300	Arg	Glu	Asp	Asn
10	Gly 305	Glu	Lys	Lys	Lys	Thr 310	Tyr	Asp	Gly	Phe	Lys 315	Glu	Gln	Asp	Asn	Gly 320
15	Lys	Leu	Leu	Asn	Asn 325	Ile	Thr	Ala	Trp	Met 330	Ser	Lys	Asp	Asn	Asp 335	Gly
15	Lys	Ser	Leu	Lys 340	Ala	Ser	Ser	Leu	Thr 345	Leu	Asp	Thr	Lys	Thr 350	Lys	Leu
20	Leu	Asp	Phe 355	Glu	Arg	Pro	Glu	Arg 360	Ser	Thr	Glu	Pro	Glu 365	Lys	Glu	Pro
	Trp	Ser 370	Gln	Pro	Pro	Ser	Gly 375	Tyr	Lys	Trp	Tyr	Asp 380	Pro	Thr	Thr	Phe
25	Lys 385	Ala	Glý	Ser	Tyr	Gly 390	Ser	Glu	Lys	Gly	Ala 395	Asp	Pro	Gln	Pro	Asn 400
٠.	Thr	Pro	Asp	Asp	His 405	Thr	Pro	Pro	Asn	Gln 410	Asn	Glu	Lys	Val	Thr 415	Phe
30	Asp	Ile	Pro	Gln 420	Asn	Val	Ser	Val	Asn 425	Glu	Pro	Phe	Glu	Met 430	Thr	Ile
35	His	Leu	Lys 435	Gly	Phe	Glu	Ala	Asn 440	Gln	Thr	Leu	Glu.	Asn 445	Leu	Arg	Val
	Gly	Ile 450	Tyr	Lys	Glu	Gly	Gly 455	Arg	Gln	Ile	Gly	Gln 460	Phe	Ser	Ser	Lys
40	Asp 465	Asn	Asp	Tyr.	Asn	Pro 470	Pro	Gly	Tyr	Ser	Thr 475	Leu	Pro	Thr	Val	Lys 480
	Ala	Asp	Glu	Asn	Gly 485	Asn	Val	Thr	Ile	Lys 490	Val	Asn	Ala	Lys	Val 495	Leu
45	Glu	Ser	Met	Glu 500	Gly	Ser	Lys	Ile	Arg 505	Leu	Lys	Leu	Gly	As p 510	Lys	Thr
	Leu	Ile	Thr 515	Thr	Asp	Phe	Lys									
50	(2) INFOR	ITAMS	ON F	FOR S	EQ I	D NC	:523	1:	·							
55	(i)	(B) (C)	LEN TYP STR	CHA IGTH: PE: a RANDE POLOG	316 mino DNES	ami aci S: s	no a d ingl	cids								

	(xi)	.SEQ	JENCI	E DES	SCRI	PTIO	N: SI	EQ II	OM C	: 5231	L:					
5	Arg 1	Asp	Glu	Arg	Ile 5	Lys	Thr	Met	Thr	Asn 10	Ser	Ser	Lys	Ser	Phe 15	Thr
	Lys	Phe	Met	Ala 20	Ala	Ser	Ala	Val	Phe 25	Thr	Met	Gly	Phe	Leu 30	Ser	Val
10	Pro	Thr	Ala 35	Gly	Ala	Glu	Gln	Thr 40	Asn	Gln	Ile	Ala	Asn 45	Lys _.	Pro	Gln
15	Ala	Ile 50	Gln	Trp	His	Thr	Asn 55	Leu	Thr	Asn	Glu	Arg 60	Phe	Thr	Thr	Ile
15	Ala 65	His	Arg	Gly	Ala	Ser 70	Gly	Tyr	Ala	Pro	Glu 75	His	Thr	Phe	Gln	Ala BO
20	Tyr	Asp	Lys	Ser	His 85	Åsn	Glu	Leu	Lys	Ala 90	Ser	Tyr	Ile	Glu	Ile 95	Asp
	Leu	Gln	Arg	Thr 100	Lys	Asp	Gly	His	Leu 105	Val	Ala	Met	His	Asp 110	Glu	Thr
25	Val	Asn	Arg 115	Thr	Thr	Asn	Gly	His 120	Gly	Lys	'Val	Glu	Asp 125	Tyr	Thr	Leu
	Asp	Glu 130	Leu	Lys	Gln	Leu	Asp 135	Ala	Gly	Ser	Trp	Phe 140	Asn	Lys	Lys	Tyr
30	Pro 145	Lys	Tyr	Ala	Arg	Ala 150	Ser	Tyr	Lys	Asn	Ala 155	Lys	Val	Pro	Thr	Leu 160
35	Asp	Glu	Ile	Leu	Glu 165	Arg	Tyr	Gly	Pro	Asn 170	Ala	Asn	Tyr	Tyr	Ile 175	Glu
	Thr	Lys	Ser	Pro 180	Asp	Val	Tyr	Pro	Gly 185	Met	Glu	Glu	Gln	Leu 190	Leu	Ala
40	Ser	Leu	Lys 195	Lys	His	His	Leu	Leu 200	Asn	Asn	Asn	Lys	Leu 205	Lys	Asn	Gly
,	His	Val 210	Met	Ile	Glņ	Ser	Phe 215	Ser	Asp	Glu	Ser	Leu 220	Lys	Lys	Ile	His
45	Arg 225	Gln	Asn	Lys	His	Val 230	Pro	Leu	Val	Lys	Leu 235	Val	Asp	Lys	Gly	Glu 240
50	Leu	Gln	Gln	Phe	Asn 245	Asp	Gln	Arg	Leu	Lys 250	Glu	Ile	Arg	Ser	Tyr 255	Àla
	Ile	Gly	Leu	Gly 260	Pro	Asp	Tyr	Thr	Asp 265	Leu	Thr	Glu	Gln	Asn 270	Thr	His
55	His	Leu	Lys 275	Asp	Leu	Gly	Phe	Ile 280	Val	His	Pro	Tyr	Thr 285	Val	Asn	Glu

		Lys	290	Hap	MEC	Den	AL Y	295	ASII	Lys	-7-	GLY	300	nop	GLY	V41	1110
5		Thr 305	Asn	Phe	Ala	Asp	Lys 310	Tyr	Lys	Glu	Val	Ile 315	Lys				-
	(2)	INFO	RMAT	ION :	FOR	SEQ :	ID N	0:52	32:								
10		(i)	(A (B) (C)) LEI) TY:) STI	NGTH PE: { RAND	ARACT 433 amino EDNES	am: cac: SS: 8	ino a id sing:	acid	5							
15	,	(ii)	MOL	ECULI	E TY	PE:]	prote	ein									
20		(xi)	SEQ	UENC	E DE	SCRI	PTIOI	N: S	EQ II	ON C	: 523	2:				,	
		Arg 1	Phe	Met	Lys	Asn 5	Leu	Ile	Ser	Ile	Ile 10	Ile	Ile	Leu	Cys	Leu 15	Thr
25		Leu	Ser	Ile	Met 20	Thr	Pro	Tyr	Ala	Gln 25	Ala	Thr	Asn	Ser	Asp 30	Val	Thr
		Pro	Val	Gln 35	Ala	Ala	Asn	Gln	Tyr 40	Gly	Tyr	Ala	Gly	Leu 45	Ser	Ala	Ala
30		Tyr	Glu 50	Pro	Thr	Ser	Ala	Val 55	Asn	Val	Ser	Gln	Thr 60	Gly	Gln	Leu	Leu
	٠	Tyr 65	Gln	Tyr	Asn	Ile	Asp 70	Thr	Lys	Trp	Asn	Pro 75	Ala	Ser	Met	Thr	Lys 80
35		Leu	Met	Thr	Met	Tyr 85	Leu	Thr	Leu	Glu	Ala 90	Val	Asn	Lys	Gly	Gln 95	Leu
		Ser	Leu	Asp	Asp 100	Thr	Val	Thr	Met	Thr 105	Asn	Lys	Glu	Tyr	Ile 110	Met	Ser
40		Thr	Leu	Pro 115	Glu	Leu	Ser	Asn	Thr 120	Lys	Leu	Tyr	Pro	Gly 125	Gln	Val	Trp
45		Thr	Ile 130	Ala	Asp	Leu	Leu	Gln 135	Ile	Thr	Val	Ser	Asn 140	Ser	Ser	Asn	Ala
		Ala 145	Ala	Leu	Ile	Leu	Ala 150	Lys	Lys	Val	Ser	Lys 155	Asn	Thr	Ser	Asp	Phe 160
50		Val	Asp	Leu	Met	Asn 165	Asn	Lys	Ala	Lys	Ala 170	Ile	Gly	Met	Lys	As n 175	Thr
		His	Phé	Val	Asn 180	Pro	Thr	Gly	Ala	Glu 185	Asn	Ser	Arg	Leu	Arg 190	Thr	Phe
55		Ala	Pro	Thr	Lys	Tyr	Lys	Asp	Gln 200	Glu	Arg	Thr	Val	Thr 205	Thr	Ala	Arg

		Asp	Tyr 210	Ala	Ile	Leu	Asp	Leu 215	His	Val	Ile	Lys	Glu 220	Thr	Pro	Lys	Ile
5		Leu 225	Asp	Phe	Thr	Lys	Gln 230	Leu	Ala	Pro	Thr	Thr 235	His	Ala	Val	Thr	Tyr 240
		Týr	Thr	Phe	Asn	Phe 245	Ser	Leu	Glu	Gly	Ala 250	Lys	Met	Ser	Leu	Pro 255	
10		Thr	Asp	Gly	Leu 260	Lys	Thr	Gly	Ser	Ser 265	Asp	Thr	Ala	Asn	Tyr 270	Asn	His
		Thr	Ile	Thr 275	Thr	Lys	Arg	Gly	Lys 280	Phe	Arg	Ile	Asn	Gln 285	Val	Ile	Met
15		Gly	Ala 290	Gly	Asp	Tyr	Lys	Asn 295	Leu	Gly	Gly	Glu	Lys 300		Arg	Asn	Met
20		Met 305	Gly	Asn	Ala	Leu	Met 310	Glu	Arg	Ser	Phe	Asp 315	Gln	Tyr	Lys	Tyr	Val 320
20		Lys	Ile	Leu	Ser	Lys 325	Gly	Glu	Gln	Arg	Ile 330	Asn	Gly	Lys	Lys	Tyr 335	Tyr
25		Val	Glu	Asn	Asp 340	Leu	Tyr	Asp	Val	Leu 345	Pro	Ser	Asp	Phe	Ser 350	Lys	Lys
		Asp	Tyr	Lys 355	Leu	Val	Val	Glu	Asp 360	Gly	Lys	Val	His	Ala 365	Asp	Tyr	Pro
30		Arg	Glu 370	Phe	Ile	Asn	Lys	Asp 375	Tyr	Gly	Pro	Pro	Thr 380	Val	Glu	Val	His
		Gln 385	Pro	Ile	Ile	Gln	Lys 390	Ala	Asn	Thr	Val	Ala 395	Lys	Ser	Met	Trp	Glu 400
35		Glu	His	Pro	Leu	Phe 405	Thr	Ile	Ile	Gly	Gly 410	Thr	Cys	Leu	Val	Ala 415	Gly
		Leu	Ala	Leu	1le 420	Val	His	Met	Ile	Ile 425	Asn	Arg	Leu	Phe	Arg. 430	Lys	Arg
40		Lys	•												,		
	(2)	INFO	RMATI	ON F	FOR S	SEQ I	D NO	523	33:								
45	,	(i)	(A) (B) (C)	JENCI LEN TYI STI TOI	NGTH: PE: 8 RANDI	: 151 amino EDNES	ami aci SS: s	ino a id singl	cids	3							
50		(ii)	MOLE	CULE	TYI	PE: p	prote	ein									

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5233:

	Leu 1	Thr	Lys	Glu	Arg 5	Glu	Tyr	Met	Lys	Leu 10	Lys	Ser	Phe	Ile	Thr 15	Val
5	Thr	Leu	Ala	Leu 20	Gly	Met	Ile	Ala	Thr 25	Thr	Gly	Ala	Thr	Val 30	Ala	Gly
	Asn	Glu	Val 35	Ser	Ala	Ala	Glu	Lys 40		Lys	Leu	Pro	Ala 45	Thr	Gln	Lys
	Ala	Lys 50	Glu	Met	Gln	Asn	Val 55	Pro	Tyr	Thr	Ile	Ala 60	Val	Asp	Gly	Ile
•	Met 65	Ala	Phe	Asn	Gln	Ser 70	Tyr	Leu	Asn	Leu	Pro 75	Lys	Asp	Ser	Gln	Leu 80
15	Ser	Tyr	Leu	Asp	Leu 85	Gly	Asn	Lys	Val	Lys 90	Ala	Leu	Leu	Tyr	Asp 95	Glu
20	Arg	Gly	Val	Thr 100	Pro	Glu	Lys	Ile	Arg 105	Asn	Ala	Lys	Ser	Ala 110	Val	Tyr
	Thr	Ile	Thr 115	Trp	Lys	Asp _.	Gly	Ser 120	Lys	Lys	Glu	Val	Asp 125	Leu	Lys	Lys
₽5	Asp	Ser 130	_	Thr	Ala	Asn	Leu 135	Phe	Asp	Ser	Asn	Ser 140	Ile	Lys	Gln	Ile
•	Asp 145	Ile	Asn	Val	Lys	Thr 150	Lys									
(2)	INFOR	RMATI	ON F	FOR S	SEQ 1	D NO	523	14:								
.5	(i)	(A) (B) (C)	LEN TYP STF	GTH: PE: 8 RANDE	: 497	ami aci S: s	ingl	cids	.					•		
	(ii)	MOLE	CULE	TYF	e: p	rote	ein									
o												,				
,	(xi)	SEQU	JENCE	DES	CRIF	TION	: SE	II Q	NO:	5234	::					
5	Asn 1	His	Cys	Asn	Arg 5	Ile	Glu	Arg	Lys	Met 10	Ala	Met	Ser	Asn	Asn 15	Phe
	Lys	Asp	Asp	Phe 20	Glu	Lys	Asn	Arg	Gln 25	Ser	Ile	Asp	Thr	Asn 30	Ser	His
<i>o</i> .	Gln	Asp	His 35	Thr	Glu	Asp	Val	Glu 40	Lys	Asp	Gln	Ser	Glu 45	Leu	Glu	His
	Gln	Asp 50	Thr	Ile	Glu	Asn	Thr 55	Glu	Gln	Gln	Phe	Pro 60	Pro	Arg	Asn	Ala
5	Gln 65	Arg	Arg	Lys	Arg	Arg 70	Arg	Asp	Leu	Ala	Thr 75	Asn	His	Asn	Lys	Gln BO

	Val	His	Asn	Glu	Ser 85	Gln	Thr	Ser	Glu	Asp 90	Asn	Val	Gln	Asn	Glu 95	Ala
·5	Gly	Thr	Ile	As p	Asp	Arg	Gln	Val	Glu 105	Ser	Ser	His	Ser	Thr 110	Glu	Ser
	Gln	Glu	Pro 115	Ser	His	Gln	Asp	Ser 120	Thr	Pro	Gln	His	Glu 125	Glu	Glu	Tyr
10	Tyr	Asn 130	Lys	Asn	Ala	Phe	Ala 135	Met	Asp	Lys	Ser	His 140	Pro	Glu	Pro	Ile
	Glu 145	Asp	Asn	Asp	Lys	His 150	Asp	Thr	Ile	Lys	Asn 155	Ala	Glu	Asn	Asn	Thr 160
1 5	Glu	His	Ser	Thr	Val 165	Ser	Asp	Lys	Ser	Glu 170	Ala	Glu	Gln	Ser	Gln 175	Gln
. 20	Pro	Lys	Pro	Tyr 180	Phe	Thr	Thr	Gly	Ala 185	Asn	Gln	Ser	Glu	Thr 190	Ser	Lys
· - ·	Asn	Glu	His 195	Asp	Asn	Asp	Ser	Val 200	Lys	Gln	Asp	Gln	Asp 205	Glu	Pro	Lys
25	Glu	His 210	His	Asn	Gly	Lys	Lys 215	Ala	Ala	Ala	Ile	Gly 220	Ala	Gly	Thr	Ala
	Gly 225	Val	Ala	Gly	Ala	Ala 230	Gly	Ala	Met	Ala	Ala 235	Ser	Lys	Ala	Lys	Lys 240
30	His	Ser	Asn	Asp	Ala 245	Gln	Asn	Lys	Ser	Asn 250	Ser	Gly	Lys	Ala	As n 255	Asn
	Ser	Thr	Glu	Asp 260	Lys	Ala	Ser	Gln	Asp 265	Lys	Ser	Lys	Asp	His 270	His	Asn
35	Gly	Lys	Lys 275	Gly	Ala	Ala	Ile	Gly 280	Ala	Gly	Thr		Gly 285	Leu	Ala	Gly
	Gly	Ala 290	Ala	Ser	Lys	Ser	Ala 295	Ser	Ala	Ala	Ser	Lys 300	Pro	His.	Ala	Ser
40	Asn 305	Asn	Ala	Ser	Gln	Asn 310	His	Asp	Glu	His	Asp 315	Asn	His	Asp	Arg	Asp 320
45	Lys	Glu	Arg	Lys	Lys 325	Gly	Gly	Met	Ala	Lys 330	Val	Leu	Leu	Pro	Leu 335	Ile
	Ala	Ala	Val	Leu 340	Ile	Ile	Gly	Ala	Leu 345	Ala	Ile	Phe	Gly	Gly 350	Met	Ala
50	Leu	Asn	Asn 355	His	Asn	Asn	Gly	Thr 360	Lys	Glu	Asn	Lys	Ile 365	Ala	Asn	Thr
	Asn	Lys 370	Asn	Asn	Ala	Asp	Glu 375	Ser	Lys	Asp	Lys	Asp 380	Thr	Ser	Lys	Asp
55	Ala 385	Ser	Lys	Asp	Lys	Ser 390	Lys	Ser	Thr	Asp	Ser 395	Asp	Lys	Şer	Lys	Glu 400

		Asp	Gln	Asp	Lys	Ala 405	Thr	Lys	Asp	Glu	Ser 410	Asp	Asn	Asp	Gln	Asn 415	Asn
5 ·		Ala	Asn	Gln	Ala 420	Asn	Asn	Gln	Ala	Gln 425	Asn	Asn	Gln	Asn	Gln 430	Gln	Gln
		Ala	Asn	Gln 435	Asn	Gln	Gln	Gln	Gln 440	Gln	Gln	Arg	Gln	Gly 445	Gly	Gly	Gln
10		Arg	His 450	Thr	Val	Asn	Gly	Gln 455	Glu	Asn	Leu	Tyr	Arg 460	Ile	Ala	Ile	Gln
		Tyr 465	Tyr	Gly.	Ser	Gly	Ser 470	Pro	Glu	Asn	Val	Glu 475	Lys	Ile	Arg	Arg	Ala 480
15		Asn	Gly	Leu	Ser	Gly 485	Asn	Asn	Ile	Arg	Asn 490	Gly	Gln	Gln	Ile	Val 495	Ile
		Pro				•						,					
20	(2)	INFO	RMATI	ION I	FOR S	SEQ I	D NO	D:523	35:								
25		(i)	(A) (B) (C)	UENCE LEN TYI STI TOI	NGTH: PE: 8 RANDI	: 886 amino EDNES	ami aci SS: s	ino a id singl	acids	5							
		(ii)	MOLE	ECUL	E TYE	PE: p	rote	ein									
30																	
		(xi)	_														
35		Leu 1	Leu	Ser	Ile	Lys 5	Tyr	Asn	Leu	Ile	Gly 10	Val	Val	Asn	Asn	Met 15	Asn
		Lys	His	His	Pro 20	Lys	Leu	Arg	Ser	Phe 25	Tyr	Ser	Ile	Arg	Lys	Ser	Thr
40		Leu	Gly	Val 35	Ala	Ser	Val	Ile	Val 40	Ser	Thr	Leu	Phe	Leu 45	Ile	Thr	Ser
45		Gln	His 50	Gln	Ala	Gln	Ala	Ala 55	Glu	Asn	Thr	Asn	Thr 60	Ser	Asp	Lys	Ile
.•		Ser 65	Glu	Asn	Gln	Asn	Asn 70	Asn	Ala	Thr	Thr	Thr 75	Gln	Pro	Pro	Lys	Asp 80
50		Thr	Asn	Gln	Thr	Gln 85	Pro	Ala	Thr	Gln	Pro 90	Ala	Asn	Thr	Ala	Lys 95	Asn
		Tyr	Pro	Ala	Ala 100	Asp	Glu	Ser	Leu	Lys 105	Asp	Ala	Ile	Lys	Asp 110	Pro	Ala
		Ton	~1··	λen	Tare	Glu	Vie	λen	Tla	Glv	Pro	Ara	Glu	Gln	Val	Asn	Phe

	Gln	Leu 130	Leu	Asp	Lys	Asn	Asn 135	Glu	Thr	Gln	Tyr	Tyr 140	His	Phe	Phe	Ser
5	Ile 145	Lys	Asp	Pro	Ala	Asp 150	Val	Tyr	Tyr	Thr	Lys 155	Lys	Lys	Ala	Glu	Val 160
	Gļu	Leu	Asp	Ile	Asn 165	Thr	Ala	Ser	Thr	Trp 170	Lys	Lys	Phe	Glu	Val 175	
10	Glu	Asn	Asn	Gln 180	Lys	Leu	Pro	Val	Arg 185	Leu	Val	Ser	Tyr	Ser 190	Pro	Val
	Pro	Glu	Asp 195	His	Ala	Tyr	Ile	Arg 200	Phe	Pro	Val	Ser	Asp 205	Gly	Thr	Gln
15	Glu	Leu 210	Lys	Ile	Val	Ser	Ser 215	Thr	Gln	Ile	Asp	Asp 220	Gly	Glu	Glu	Thr
20	Asn 225	Tyr	Asp	Tyr	Thr	Lys 230	Leu	Val	Phe	Ala	Lys 235	Pro	Ile	Tyr	Asn	Asp 240
	Pro	Ser	Leu	Val	Lys 245	Ser	Asp	Thr	Asn	Asp 250	Ala	Val	Val	Thr	Asn 255	Asp
25	Gln	Ser	Ser	Ser 260	Val	Ala	Ser	Asn	Gln 265	Thr	Asn	Thr	Asn	Thr 270	Ser	Asn
•	Gln	Asn	Ile 275	Ser	Thr	Ile	Asn	Asn 280	Ala	Asn	Asn	Gln	Pro 285	Gln	Ala	Thr
30	Thr	Asn 290	Met	Ser	Gln	Pro	Ala 295	Gln	Pro	Lys	Ser	Ser 300	Thr	Asn	Ala	Asp
	Gln 305	Ala	Ser	Ser	Gln	Pro 310	Ala	His	Glu	Thr	Asn 315	Ser	Asn	Gly	Asn	Thr 320
35	Asn	Asp	Lys	Thr	Asn 325	Glu	Ser	Ser	Asn	Gln 330	Ser	Asp	Val	Asn	Gln 335	Gln
	Tyr	Pro	Pro	Ala 340	Asp	Glu	Ser	Leu	Gln 345	Asp	Ala	Ile	Lys	Asn. 350	Pro	Ala
40	Ile	Ile	Asp 355	Lys	Glu	His	Thr	Ala 360	Asp	Asn	Trp	Arg	Pro 365	Ile	qaA	Phe
45 ·	Gln	Met 370	Lys	Asn	Asp	Lys	Gly 375	Glu	Arg	Gln	Phe	Tyr 380	His	Tyr	Ala	Ser
	Thr 385	Val	Glu	Pro	Ala	Thr 390	Val	Ile	Phe	Thr	Lys 395	Thr	Gly	Pro	Ile	Ile 400
50	Glu	Leu	Gly	Leu	Lys 405	Thr	Ala	Ser	Thr	Trp 410	Lys	Lys	Phe	Glu	Val 415	Tyr
	Glu	Gly	As p	Lys 420	Lys	Leu	Pro	Val	Glu 425	Leu	Val	Ser	Tyr	Asp 430	Ser	Asp
55	Lys	Asp	Tyr 435	Ala	Tyr	Ile	Arg	Phe 440	Pro	Val	Ser	Asn.	Gly 445	Thr	Arg	Glu

	Val	Lys 450	Ile	Val	Ser	Ser	Ile 455	Glu	Tyr	Gly	Glu	Asn 460	Ile	His	Glu	Asp
5	Tyr 465	Asp	Tyr	Thr	Leu	Met 470	Val	Phe	Ala	Gln	Pro 475	Ile	Thr	Asn	Asn	Pro 480
	Asp	Asp	Tyr	Val	As p 485	Glu	Glu	Thr	Tyr	Asn 490	Leu	Gln	Lys	Leu	Leu 495	Ala
10	Pro	Tyr	His	Lys 500	Ala	Lys	Thr	Leu	Glu 505	Arg	Gln	Val	Tyr	Glu 510	Leu	Glu
	Lys	Leu	Gln 515	Glu	Lys	Leu	Pro	Glu 520	Lys	Tyr	Lys	Ala	Glu 525	Tyr	Lys	Lys
15	Lys	Leu 530	Asp	Gln	Thr	Arg	Val 535	Glu	Leu	Ala	Asp	Gln 540	Val	Lys	Ser	Ala
20	Val 545	Thr	Glu	Phe	Glu	Asn 550	Val	Thr	Pro	Thr	Asn 555	Asp	Gln	Leu	Thr	Asp 560
20	Leu	Gln	Glu	Ala	His 565	Phe	Val	Val	Phe	Glu 570	Ser	Glu	Glu	Asn	Ser 575	Glu
25	Ser	Val	Met	Asp 580	Gly	Phe	Val	Glu	His 585	Pro	Phe	Tyr	Thr	Ala 590	Thr	Leu
	Asn	Gly	Gln 595	Lys	Tyr	Val	Val	Met 600	Lys	Thr	Lys	Asp	Asp 605	Ser	Tyr	Trp
30	Lys	Asp 610	Leu	Ile	Val	Glu	Gly 615	Lys	Arg	Val	Thr	Thr 620	Val	Ser	Lys	Asp
	Pro 625	Lys	Asn	Asn	Ser	Arg 630	Thr	Leu	Ile	Phe	Pro 635	Tyr	Ile	Pro	Asp	Lys 640
35	Ala	Val	Tyr	Asn	Ala 645	Ile	Val	Lys	Val	Val 650	Val	Ala	Asn	Ile	Gly 655	Tyr
	Glu	Gly	Gln	Tyr 660	His	Val	Arg	Ile	Ile 665	Asn	Gln	Asp	Ile	Asn 670	Thr	Lys
40	Asp	Asp	Asp 675	Thr	Ser	Gln	Asn	Asn 680	Thr	Ser	Glu	Pro	Leu 685	Asn	Val	Gln
45	Thr	Gly 690	Gln	Glu	Gly	Lys	Val 695	Ala	Asp	Thr	Asp	Val 700	Ala	Glu	Asn	Ser
	Ser 705	Thr	Ala	Thr	Asn	Pro 710	Lys	Asp	Ala	Ser	As p 715	Lys	Ala	Asp	Val	Ile 720
50	Glu	Pro	Glu	Ser	Asp 725	Val	Val	Lys	Asp	Ala 730	Asp	Asn	Asn	Ile	Asp 735	Lys
	Asp	Val	Gln	His 740	Asp	Val	Asp	His	Leu 745	Ser	Asp	Met	Ser	Asp 750	Asn	Asn
55	His	Phe	Asp 755	Lys	Tyr	Asp	Leu	Lys 760	Glu	Met	Asp	Thr	Gln 765	Ile	Ala	Lys

		Asp	Thr 770	Asp	Arg	Asn	Val	Asp 775	Lys	Asp	Ala	Asp	Asn 780	Ser	Val	Gly	Met
5		Ser 785	Ser	Asn	Val	Asp	Thr 790	Asp	Lys	Asp	Ser	As n 795	Lys	Asn	Lys	Asp	Lys 800
		Val	Iļe	Gln	Leu	Asn 805	His	Ile	Ala	Asp	Lys 810	Asn	Asn	His	Thr	Gly 815	Lys
10		Ala	Ala	Lys	Leu 820	Asp	Val	Val	Lys	Gln 825	Asn	Tyr	Asn	Asn	Thr 830	Asp	Lys
		Val	Thr	Asp 835	Lys	Lys	Thr	Thr	Glu 840	His	Leu	Pro	Ser	Asp 845	Ile	His	ГÀЗ
15		Thr	Val 850	Asp	Lys	Thr	Val	Lys 855	Thr	Lys	Glu	Lys	Ala 860	Gly	Thr	Pro	Ser
20		Lys 865	Glu	Asn	Lys	Leu	Ser 870	Gln	Ser	Lys	Met	Le u 875	Thr	Lys	Asn	Trp	Arg 880
		Asn	Asn	Xaa	Gln	Ala 885	Asn				,						
	(2)	INFO	TAMS	ON I	OR S	SEQ 1	D NO	523	36:								
25	. •	(i)	(A) (B)	LEN	NGTH:	ARACT 236 amino	am:	ino a id	acids	3							
30			(D)	TO	POLO	3Y:]	linea	ır									
		(ii)	MOL	ECULI	E TYI	PE: p	rote	ein									
<i>35</i>		(xi)	SEQU	JENCI	E DES	SCRIE	PTIO	N: SI	EQ II	NO:	: 523(5:					
		Asn 1	Met	Asn	Lys		Val	Met	Va I	T	63	_					
40						5			vai	гуs	10	Leu	Thr	Ala	Leu _.	Thr 15	Ile
		Leu	Thr	Ser	Leu 20	-	Phe			-	10						
45					20	Gly		Ala	Glu	Asn 25	10 Ile	Ser	Asn	Gln	Xaa 30	15	Ser
45		Ile	Ala	Lys 35	20 Ala	Gly	Lys	Ala Asn	Glu Val 40	Asn 25 Lys	10 Ile Glu	Ser	Asn Thr	Gln Asp 45	Xaa 30 Ala	15 His	Ser Lys
45		Ile	Ala Pro 50	Lys 35 Tyr	20 Ala Asn	Gly Glu Ser	Lys Val	Ala Asn Val	Glu Val 40 Ala	Asn 25 Lys Phe	Ile Glu Val	Ser Ile Gly	Asn Thr Gly 60	Gln Asp 45 Thr	Xaa 30 Ala Gly	15 His Thr	Ser Lys Val
		Ile Glu Val	Ala Pro 50	Lys 35 Tyr Lys	20 Ala Asn Asn	Gly Glu Ser Thr	Lys Val Ile 70	Ala Asn Val 55 Val	Glu Val 40 Ala Thr	Asn 25 Lys Phe Asn	10 Ile Glu Val Lys	Ser Ile Gly His 75	Asn Thr Gly 60	Gln Asp 45 Thr	Xaa 30 Ala Gly Lys	15 His Thr	Ser Lys Val Asn 80

	Glu	Asp	Leu 115	Ala	Ile	Val	His	Val 120	His	Glu	Thr	Ser	Thr 125	Glu	Gly	Leu
5	Asn	Phe 130		Lys	Asn	Val	Ser 135	Tyr	Thr	Lys	Phe	Ala 140	_	Gly	Ala	Lys
	Val 145		Asp	Arg	Ile	Ser 150	Val	Ile	Gly	Tyr	Pro 155	Lys	Gly	Ala	Gln	Thr 160
10	Lys	Tyr	Lys	Met	Phe 165	Glu	Ser	Thr	Gly	Thr 170	Ile	Asn	His	Ile	Ser 175	Gļy
	Thr	Phe	Met	Glu 180	Phe	Asp	Ala	Tyr	Ala 185	Glņ	Pro	Gly	Asn	Ser 190	Gly	Ser
15	Pro	Val	Leu 195	Asn	Ser	Lys	His	Xaa 200	Leu	Ile	Gly	Ile	Leu 205	Tyr	Ala	Gly
20	Ser	Gly 210	Lys	Asp	Glu	Ser	Glu 215	Lys	Asn	Phe	Gly	Val 220	Tyr	Phe	Thr	Pro
	Gln 225	Leu	Xaa	Xaa	Phe	Ile 230	Pro	Asn	Asn	Ile	Glu 235	Lys				
	(2) INFO	RMAT:	ION I	FOR S	SEQ :	ID N	523	37:								
25	(i)	(B)	LEN TY	E CHA NGTH: PE: & RANDE	: 363 amino	am:	ino a id	cids	8							
30		(D)	TOP	POLOC	3Y:]	linea	ir									
	(ii)	MOLE	ECULE	E TYP	PE: I	prote	ein .									
3 5	(xi)	SEO	JENCE	E DES	CRIF	TTON	ı. st	O TE	NO:	5231	7 .					
40	Tyr 1	Arg	Leu	Glu	His 5	Thr	Ile	Met	Lys	Met 10	Arg	Thr	Ile	Ala	Lys 15	Thr
40	Ser	Leu	Ala	Leu 20	Gly	Leu	Leu	Thr	Thr 25	Gly	Ala	Ile	Thr	Val 30	Thr	Thr
45	Gln	Ser	Val 35	Lys	Ala	Glu	Lys	Ile 40	Gln	Ser	Thr	Lys	Val 45	Asp	Lys	Val
	Pro	Thr 50	Leu	Lys	Ala	Glu	Arg 55	Leu	Ala	Met	Ile	Asn 60	Ile	Thr	Ala	Gly
50	Ala 65	Asn	Ser	Ala	Thr	Thr 70	Gln	Ala	Ala	Asn	Thr 75	Arg	Gln	Glu	Arg	Thr 80
				_			- :	_	_	_						
	Pro	Lys	Leu	Glu	Lys 85	ALA	Pro	Asn	Thr	Asn 90	GIU	Glu	Lys	Thr	Ser 95	Ala

		Leu	Asn	Ile 115	Ser	Ala	Thr	Pro	Ala 120	Pro	Lys	Gln	Glu	Gln 125	Ser	Gln	Thr
5		Thr	Thr 130	Glu	Ser	Thr	Thr	Pro 135	Lys	Thr	Lys	Val	Thr 140	Thr	Pro	.Pro	Ser
		Thr. 145	Asn	Thr	Pro	Gln	Pro 150	Met	Gln	ser	Thr	Lys 155	Ser	Asp	Thr	Pro	Gln 160
10		Ser	Pro	Thr	Ile	Lys 165	Gln	Ala	Gln	Thr	Asp 170	Met	Thr	Pro	Lys	Tyr 175	Glu
15		Asp	Leu	Arg	Ala 180	Tyr	Tyr	Thr	Lys	Pro 185	Ser	Phe	Glu	Phe	Glu 190	Lys	Gln
		Phe	Gly	Phe 195	Met	Leu	Lys	Pro	Trp 200	Thr	Thr	Val	Arg	Phe 205	Met	Asn	Val
20		Ile	Pro 210	Asn	Arg	Phe	Ile	Tyr 215	Lys	Ile	Ala	Leu	Val 220	Gly	Lys	Asp	Glu
		Lys 225	Lys	Tyr	Lys	Asp	Gly 230	Pro	Tyr	Asp	Asn	Ile 235	Asp	Val	Phe	Ile	Val 240
25		Leu	Glu	Asp	Asn	Lys 245	Tyr	Gln	Leu	Lys	Lys 250	Ţyr	Ser	Val	Gly	Gly 255	Ile
		Thr	Lys	Thr	Asn 260	Ser	Lys	Lys	Val	Asn 265	His	Lys	Val	Glu	Leu 270	Ser	Ile
30		Thr	Lys	Lys 275	Asp	Asn	Gln	Gly	Met 280	Ile	Ser	Arg	Asp	Val 285	Ser	Glu	Tyr
35		Met	Ile 290	Thr	Lys	Glu	Glu	Ile 295	Ser	Leu	Lys	Glu	Leu 300	Asp	Phe	Lys	Leu
		Arg 305	Lys	Gln	Leu	Ile	Glu 310	Lys	His	Asn	Leu	Tyr 315	Gly	Asn	Met	Gly	Ser 320
40		Gly	Thr	Ile	Val	Ile 325	Lys	Met	Lys	Asn	Gly 330	Gly	Lys	Tyr	Thr	Phe 335	Glu
		Leu	His	Lys	Lys 340	Leu	Gln	Glu	His	Arg 345	Met	Ala	Asp	Val	Ile 350	Asp	Gly
45		Thr	Asn	Ile 355	Asp	Asn	Ile	Glu	Val 360	Asn	Ile	Lys					
	(2)	INFO	RMAT:	ION :	FOR :	SEQ	ID N	0:52	38:								
50		(i)	(A (B (C	UENC) LE) TY) ST) TO	NGTH PE: (RAND)	: 15 amin EDNE	0 am: o ac: SS:	ino id sing	acid	s							

(ii) MOLECULE TYPE: protein

55

		(xi)	SEQ	JENCI	DES	SCRI	PTION	1: SE	Q II	NO:	5238	3:					•
. 5		Phe 1	Met	Lys	Phe	Lys 5	Ser	Leu	Ile	Thr	Thr 10	Thr	Leu	Ala	Leu	Gly 15	Val
		Leu	Ala	Ser	Thr 20	Gly	Ala	Asn	Phe	Asn 25	Asn	Asn	Glu	Ala	Ser 30	Ala	Ala
10		Ala	Lys	Pro 35	Leu	Asp	Lys	Ser	Ser 40	Ser	Ser	Leu	His	His 45	Gly	Tyr	Ser
		Lys	Val 50	His	Val	Pro	Tyr	Ala 55	Ile	Thr	Val	Asn	Gly 60	Thr	Ser	Gln	Asn
15		Ile 65	Leu	Ser	Ser	Leu	Thr 70	Phe	Àsn	Lys	Asn	Gln 75	Asn	Ile	Ser	Tyr	Lys 80
		Asp	Leu	Glu	Asp	Arg 85	Val	Lys	Ser	Val	Leu 90	Lys	Ser	Asp	Arg	Gly 95	Ile
20		Ser	Asp	Ile	Asp 100	Leu	Arg	Leu	Ser	Lys 105	Gln	Ala	Lys	Tyr	Thr 110	Val	Tyr
25	•	Phe	Lys	Asn 115	_	Thr	Lys	Lys	Val 120	Ile	Asp	Leu	Lys	Ala 125	Gly	Ile	Tyr
		Thr	Ala 130	Asp	Leu	Ile	Asn	Thr 135	Ser	Glu	Ile	Lys	Ala 140	Ile	Asn	Ile	Asn
30		Val 145	Asp	Thr	Lys	Lys	Gln 150					-					
	(2)	INFO	TAMS	ON F	FOR S	SEQ I	D NO	523	9:								
35		(i)	(A) (B) (C)	LEN TYP STE	NGTH: PE: & RANDE	ARACT : 239 amino EDNES EY:]	ami aci SS: s	ino a id singl	cids	3			٠		,		
40		(ii)	MOLE	CULI	E TYI	PE: p	prote	ein									
		(xi)	SEQU	JENCI	DES	SCRI	OITS	N: SE	EQ II	NO:	5239) :					
45		Glu 1	Lys	Arg	Phe	Met 5	Gln	Met	Ala	Arg	Lys 10	Val	Val	Val	Val	Asp 15	Ąsp
50		Glu	Lys	Pro	Ile 20	Ala	Asp	Ile	Leu	Glu 25	Phe	Asn	Leu	Lys	Lys 30	Glu	Gly
		Tyr	Asp	Val 35	Tyr	Сув	Ala	Tyr	Asp 40	Gly	Asn	Asp	Ala	Val 45	Asp	Leu	Ile
55		Tyr	Glu 50	Glu	Glu	Pro	Asp	Ile 55	Val	Leu	Leu		Ile 60	Met	Leu	Pro	Gly

		Arg 65	Asp	Gly	Met	Glu	Val 70	Cys	Arg	Glu	Val	Arg 75	Lys	Lys	Tyr	Glu	Met 80
5		Pro	Ile	Ile	Met	Leu 85	Thr	Ala	Lys	Asp	Ser 90	Glu	Ile	Asp	Lys	Val 95	Leu
		Gly	Leu	Glu	Leu 100	Gly	Ala	Asp	Asp	Tyr 105	Val	Thr	Lys	Pro	Phe 110	Ser	Thr
0		Arg	Glu	Leu 115	Ile	Ala	Arg	Val	Lys 120	Ala	Asn	Leu	Arg	Arg 125	His	Tyr	Ser
		Gln	Pro 130	Ala	Gln	Asp	Thr	Gly 135	Asn	Val	Thr	Asn	Glu 140	Ile	Thr	Ile	Lys
15		Asp 145	Ile	Val	Ile	Tyr	Pro 150	Asp	Ala	Tyr	Ser	Ile 155	Lys	Lys	Arg	Gly	Glu 160
20		Asp	Ile	Glu	Leu	Thr 165	His	Arg	Glu	Phe	Glu 170	Leu	Phe	His	Tyr	Leu 175	Ser
		Lys	His	Met	Gly 180	Gln	Val	Met	Thr	Arg 185	Glu	His	Leu	Leu	Gln 190	Thr	Val
P5 ·	•	Trp	Gly	Tyr 195	Asp	Tyr	Phe	Gly	Asp 200	Val	Arg	Thr	Val	Asp 205	Val	Thr	Ile
		Arg	Arg 210	Leu	Arg	Glu	Lys	Ile 215	Glu	Asp	Asp	Pro	Ser 220	His	Pro	Glu	Tyr
30		Ile 225	Val	Thr	Arg	Arg	Gly 230	Val	Gly	Tyr	Phe	Leu 235	Gln	Gln	His	Glu	
	(2)	INFOR	TAMS	I NOI	FOR S	SEQ :	D NO	524	10:								
9 5 ·		(i)	(A) (B) (C)	LEI TYI	E CHA NGTH: PE: 8 RANDE POLOC	: 133 amino EDNES	am: ac:	ino a id singl	acids	3		. •		•			
10		(ii)	MOLE	ECULI	E TYI	PE: p	prote	ein									
		(xi)	SEQU	JENCI	E DES	SCRIE	PTIO	V: SE	SQ II	ONO:	: 5240) :	•				
,		Xaa 1	Leu	Ser	Thr	Val	Ile	Gly	Ala	Xaa	Leu 10	Phe	Phe	Lys.	Ser	Ser 15	Val
5 0		Ser	Leu	Val	Phe 20	Lys	Met	Val	Lys	Lys 25	Phe	Arg	Xaa	Gly	Val 30	Ile	Ser
-		Val	Asn	Asp 35	Val	Met	Phe	Ser	Ser 40	Ser	Ile	Met.	Tyr	Arg 45	Ile	Lys	Lys
i5		Asn	Ala 50	Phe	Ser	Leu	Thr	Val 55	Met	Ala	Ile	Ile	Ser 60	Ala	Ile	Thr	Val

		Ser 65	Val	Leu	Cys	Phe	Ala 70	Ala	Ile	Ser	Arg	Ala 75	Ser	Leu	Ser	Ser	Glu 80
5		Ile	Lys	Tyr	Thr	Ala 85	Pro	His	qeA	Val	Thr 90	Ile	Lys	Asp	Gln	Gln 95	Lys
		Ala	Asn	Gln	Leu 100	Ala	Ser	Glu	Leu	Asn 105	Asn	Gln	Lys	Ile	Pro 110	His	Phe
10		Tyr	Asn	Tyr 115	Lys	Glu	Val	Ile	His 120	Thr	Lys	Leu	Tyr	Lys 125	Asp	Asn	Leu
		Phe	Asp 130	Val	Lys	Ala										٠	
15	(2)	INFO	RMAT:	ION 1	FOR S	SEQ :	ID N	0:524	41:								
20		(i)	(A) (B) (C)	LEI TYI	e chi ngth PE: 8 RANDI POLOO	: 500 amino EDNES	8 am: 5 ac: 5S: 1	ino a id sing!	acid	5			٠				·
		(ii)	MOL	ECULI	E TYI	PE: 1	prote	ein									
25										٠			•				
		(xi)	SEQ	JENCI	E DES	CRI	PTIO	N: SI	EQ II	ONO:	5241	L:					
30		Glu 1	Ile	Tyr	Ile	Ile 5	Ala	Asn	Lys	Gln	Arg 10	Arg	Asp	Asn	Met	Ala 15	Val
		Asn	Val	Arg	Asp 20	Tyr	Ile	Ala	Glu	Asn 25	Tyr	Gly	Leu	Phe	Ile 30	Asn	Gly
35		Glu	Phe	Val 35	Lys	Gly	Ser	Ser	Asp 40	Glu	Thr	Ile	Glu	Val 45	Thr	Asn	Pro
		Ala	Thr 50	Gly	Glu	Thr	Leu	Ser 55	His	Ile	Thr	Arg	Ala 60	Lys	Asp.	Lys	Asp
10		Val 65	Asp	His	Ala	Val	Lys 70	Val	Ala	Gln	Glu	Ala 75	Phe	Glu	Ser	Trp	Ser 80
15		Leu	Thr	Ser	Lys	Ser 85	Glu	Arg	Ala	Gln	Met 90	Leu	Arg	Asp	Ile	Gly 95	qaA
		Lys	Leu	Met	Ala 100	Gln	Lys	Asp	Lys	Ile 105	Ala	Met	Ile	Glu	Thr 110	Leu	Asn
50		Asn	Gly	Lys 115	Pro	Ile	Arg	Glu	Thr 120	Thr	Ala	Ile	Asp	Ile 125	Pro	Phe	Ala
		Ala	Arg 130	His	Phe	His	Tyr	Phe 135	Ala	Ser	Val	Ile	Glu 140	Thr	Glu	Glu	Gly
i <i>5</i>		Thr	Val	Asn	Asp	Ile	Asp 150	Lys	Asp	Thr	Met	Ser 155	Ile	Val	Arg	His	Glu 160

	Pro	Ile	Gly	Val	Val 165	Gly	Ala	'Val	Val	Ala 170	Trp	Asn	Phe	Pro	Met 175	Leu
5	Leu	Ala	Ala	Trp	Lys	Ile	Ala	Pro	Ala 185	Ile	Ala	Ala	Gly	Asn 190	Thr	Ile
	Val	Ile	Gln 195	Pro	Ser	Ser	Ser	Thr 200	Pro	Leu	Ser	Leu	Leu 205	Glu	Val	Ala
10	Lys	Ile 210	Phe	Gln	Glu	Val	Leu 215	Pro	Lys	Gly	Val	Val 220	Asn	Ile	Leu	Thr
. •	Gly 225	Lys	Gly	Ser	Glu	Ser 230	Gly	Asn	Ala	Ile	Phe 235	Asn	His	Asp	Gly	Val 240
15	Asp	Lys	Leu	Ser	Phe 245	Thr	Gly	Ser	Thr	As p 250	Val	Gly	Tyr	Gln	Val 255	Ala
20	Glu	Ala	Ala	Ala 260	Lys	His	Leu	Val	Pro 265	Ala	Thr	Leu	Glu	Leu 270		Gly
20	Lys	Ser	Ala 275	Asn	Ile	Ile	Leu	Asp 280	Asp	Ala	Asn	Leu	Asp 285	Leu	Ala	Val
25	Glu	Gly 290	Ile	Gln	Leu	Gly	Ile 295	Leu	Phe	Asn	Gln	Gly 300	Glu	Val	Cys	Ser
	Ala 305	Gly	Ser	Arg	Leu	Leu 310	Val	His	Glu	Lys	Ile 315	Tyr	Asp	Gln	Leu	Val 320
30	Pro	Arg	Leu	Gln	Glu 325	Ala	Phe	Ser	Asn	Ile 330	Lys	Val	Gly	Asn	Pro 335	Gln
	Asp	Glu	Ala	Thr 340	Gln	Met	Gly	Ser	Gln 345	Thr	Gly	Lys	Asp	Gln 350	Leu	Asp
35	Lys	Ile	Gln 355	Ser	Tyr	Ile	Asp	Ala 360	Ala	Lys	Glu	Ser	Asp 365	Ala	Gln	Ile
		Ala 370	Gly	Gly	His	Arg	Leu 375	Thr	Glu	Asn	Gly	Leu 380	Asp	Lys _.	Gly	Phe
40	Phe 385	Phe	Glu	Pro	Thr	Leu 390	Ile	Ala	Val	Pro	Asp 395	Asn	His	His	Lys	Leu 400
45	Ala	Gln	Glu	Glu	Ile 405	Phe	Gly	Pro	Val	Leu 410	Thr	Val	Ile	Lys	Val 415	Lys
***	Asp	Asp	Gln	Glu 420	Ala	Ile	Asp	Ile	Ala 425	Asn	Asp	Ser	Glu	Tyr 430	Gly	Leu
50	Ala	Gly	Gly 435	Val	Phe	Ser	Gln	Asn 440	Ile	Thr	Arg	Ala	Leu 445	Asn	Ile	Ala
		Ala 450	Val	Arg	Thr	Gly	Arg 455	Ile	Trp	Ile	Asn	Thr 460	Tyr	Asn	Gln	Val
55	Pro 465	Glu	Gly	Ala	Pro	Phe 470	Gly	Gly	Tyr	Lys	Lys 475	Ser	Gly	Ile	Gly	Arg 480

		Glu	Thr	Тух	Lys	Gly 485		Leu	Ser	Asn	Tyr 490	Gln	Gln	Val	Lys	Asn 495	Ile
5		Tyr	· Ile	. Asp	Thr 500	Ser	Asn	Ala	Leu	Lys 505	_	Leu	Tyr	•			
	(2)	INFO	RMAT	ON	FOR	SEQ	ID N	0:52	42:								
10		(i)	(A (B (C	L) LE () TY () ST	NGTH PE: RAND	ARAC : 54 amin EDNE GY:	0 am o ac SS:	ino id sing	acid	s							
15		(ii)	MOL	ECUL	E TY	PE: j	prot	ein		٠							
		(xi)	SEQ	UENC	E DE	SCRI:	PTIO	N: S	EQ I	D NO	: 524:	2:					
20		Asn 1	His	Leu	Thr	Ala 5	Arg	Ile	Ile	Asn	Gln 10	Glu	Asp	Asp	Leu	Met 15	Asn
25		Leu	Phe	Arg	Gln 20	Gln	Lys	Phe	Ser	Ile 25	Arg	Lys	Phe	Asn	Val 30	Gly	Ile
		Phe	Ser	Ala 35	Leu	Ile	Ala	Thr	Val 40	Thr	Phe	Ile	Ser	Thr 45	Asn	Pro	Thr
<i>30</i> .		Thr	Ala 50	Ser	Ala	Ala	Glu	Gln 55	Asn	Gln	Pro	Ala	Gln 60	Asn	Gln	Pro	Ala
		Gln 65	Pro	Ala	Asp	Ala	Asn 70	Thr	Gln	Pro	Asn	Ala 75	Asn	Ala	Gly	Ala	Gln 80
35		Ala	Asn	Pro	Thr	Ala 85	Gln	Pro	Ala	Ala	Pro 90	Ala	Asn	Gln	Gly	Gln 95	Pro
		Ala	Val	Gln	Pro 100	Ala	Asn	Gln	Gly	Gly 105	Gln	Ala	Asn	Pro	Ala 110	Gly	Gly
40		Ala	Ala	Gln 115	Pro	Asn	Thr	Gln	Pro 120	Ala	Gly	Gln	Gly	Asp 125	Gln	Ala	Asp
45		Pro	Asn 130	Asn	Ala	Ala	Gln	Ala 135	Gln	Pro	Gly	Asn.	Gln 140	Ala	Thr	Pro	Ala
45		Asn 145	Gln	Ala	Gly	Gln	Gly 150	Asn	Asn	Gln	Ala	Thr 155	Pro	Asn	Asn	Asn	Ala 160
50		Thr	Pro	Àla	Asn	Gln 165	Thr	Gln	Pro	Ala	Asn 170	Ala	Pro	Ala	Ala	Ala 175	Gln
		Pro	Ala	Ala	Pro 180	Val	Ala	Ala	Asn	Ala 185	Gln	Thr	Gln	Asp	Pro 190	Asn	Ala
ee		Ser	Asn	Thr 195	Gly	Glu	Gly	Ser	Ile 200	Asn	Thr	Thr	Leu	Thr 205	Phe	Asp	Asp

	Pro	Ala 210	Ile	Ser	Thr	Asp	Glu 215	Asn	Arg	Gln	Asp	Pro 220	Thr	Val	Thr	Val
5	Thr 225	Asp	Lys	Val		Gly 230	Tyr	Ser	Leu	Ile	Asn 235	Asn	Gly	Lys	Ile	Gly 240
	Phe	Val	Asn	Ser	Glu 245	Leu	Arg	Arg	Ser	Asp 250	Met	Phe	Asp	Lys	Asn 255	Asn
10	Pro	Gln	Asn	Tyr 260	Gln	Ala	Lys	Gly	Asn 265	Val	Ala	Ala	Leu	Gly 270	Arg	Val
	Asn	Ala	Asn 275	Asp	Ser	Thr	Asp	His 280	Gly	Asn	Phe	Asn	Gly 285	Ile	Ser	Lys
15	Thr	Val 290	Asn	Val	Lys	Pro	Asp 295	Ser	Glu	Leu	Ile	Ile 300	Asn	Phe	Thr	Thr
20	Met 305	Gln	Thr	Asn	Ser	Lys 310	Gln	Gly	Ala	Thr	Asn 315	Leu	Val	Ile	Lys	Asp 320
20	Ala	Lys	Lys	Asn	Thr 325	Glu	Leu	Ala	Thr	Val 330	Asn	Val	Ala	Lys	Thr 335	Gly
25	Thr	Ala	His	Leu 340	Phe	Lys	Val	Pro	Thr 345	Asp	Ala	Asp	Arg	Leu 350	Asp	Leu
	Gln	Phe	Ile 355	Pro	Asp	Asn	Thr	Ala, 360	Val	Ala	Asp	Ala	Ser 365	Arg	Ile	Thr
30	Thr	Asn 370	Lys	Asp	Gly	Tyr	Lys 375	Tyr	Tyr	Ser	Phe	Ile 380	Asp	Asn	Val	Gly
	Leu 385	Phe	Ser	Gly	Ser	His 390	Leu	Tyr	Val	Lys	Asn 395	Arg	Asp	Leu	Ala	Pro 400
35	Lys	Ala	Thr	Asn	Asn 405	Lys	Glu	Tyr	Thr	Ile 410	Asn	Thr	Glu	Ile	Gly 415	Asn
	Asn	Gly	Asn	Phe 420	Gly	Ala	Ser	Leu	Lys 425	Ala	Asp	Gln	Phe	Lys 430	Tyr	Glu
40	Val	Thr	Leu 435	Pro	Gln	Gly	Val	Thr 440	Tyr	Val	Asn	Asn	Ser 445	Leu	Thr	Thr
_	Thr	Phe 450	Pro	Asn	Gly	Asn	Glu 455	Asp	Ser	Thr	Val	Leu 460	Lys	Asn	Met	Thr
45	Val 465	Asn	Tyr	Asp		Asn 470	Ala	Asn	Lys	Val	Thr 475	Phe	Thr	Ser	Gln	Gly 480
50	Val	Thr	Thr	Ala	Arg 485	Gly	Thr	His	Thr	Lys 490	Glu	Val	Leu	Phe	Pro 495	Asp
	Lys	Ser	Leu	Lys 500	Leu	Ser	Tyr	Lys	Val 505	Asn	Val	Ala	Asn	Ile 510	Asp	Thr
. 55	Pro	Lys	Asn 515	Ile	Asp	Phe	Asn	Glu 520	Lys	Leu	Thr	Tyr	Arg 525	Thr	Ala	Ser

Asp Val Val Ile Asn Asn Ala Gln Pro Glu Val His 530 535 540

5	(2)	INFO	RMAT	ION	FOR	SEQ	ID N	0:52	43:								
10		(i)	(A (B (C) LE) TY) ST	NGTH PE: (RAND)	ARAC : 27- amin EDNE: GY:	4 am o ac SS:	ino id sing	acid	5							
		(i i)	MOL	ECUL:	E TY	PE:]	prot	ein		. ,							
15			•						•								•
		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: 5	EQ I	on o	: 524	3:					
20		Ile 1	Thr	Leu	Lys	Thr 5	Val	Ser	Gln	Leu	Ile 10	Asp	Met	Lys	Gln	Lys 15	Gln
20		Thr	Lys	Ile	Ser 20	Met	Val	Thr	Ala	Tyr 25	Asp	Phe	Pro	Ser	Ala 30	Lys	Gln
25	٠	Val	Glu	Ala 35	Ala	Gly	Ile	Asp	Met 40	Ile	Leu	Val	Gly	Asp 45		Leu	Gly
		Met	Thr 50	Val	Leu	Gly	Tyr	Glu 55	Ser	Thr	Val	Gln	Val 60	Thr	Leu	Ala	Asp
30		Met 65	Ile	His	His	Gly	Arg 70	Ala	Val	Arg	Arg	Gly 75	Ala	Pro	Asn	Thr	Phe 80
		Val	Val	Val	Asp	Met 85	Pro	Ile	Gly	Ala	Val 90	Gly	Ile	Ser	Met	Thr 95	Gln
35		Asp	Leu	Asn	His 100	Ala	Leu	Lys	Leu	Tyr 105	Gln	Glu	Thr	Asn	Ala 110	Asn	Ala
		Ile	Lys	Ala 115	Glu	Gly	Ala	His	Ile 120	Thr	Pro	Phe	Ile	Glu 125	Lys,	Ala	Thr
40 .		Ala	Ile 130	Gly	Ile	Pro	Val	Val 135	Ala	His	Leu	Gly	Leu 140	Thr	Pro	Gln	Ser
		Val 145	Gly	Val	Met	Gly	Tyr 150	Lys	Leu	Gln	Gly	Ala 155	Thr	Lys	Glu	Ala	Ala 160
45		Glu	Gln	Leu	Ile	Leu 165	Asp	Ala	Lys	Asn	Val 170	Glu	Gļn	Ala	Gly	Ala 175	Val
50	•	Ala	Leu	Val	Leu 180	Glu	Ala	Ile	Pro	As n 185	Asp	Leu	Ala	Glu	Glu 190	Ile	Ser
		Lys	His	Leu 195	Thr	Ile	Pro	Val	Ile 200	Gly	Ile	Gly	Ala	Gly 205	Lys	Gly	Thr
55		Asp	Gly 210	Gln	Val	Leu	Val	Tyr 215	His	Asp	Met	Leu	Asn 220	Tyr	Gly	Val	Glu

		H15 225	Lys	.A.La	Lys	Phe	230	Lys	Gin	Phe	Ala	235	Phe	Ser	Vai	GIÀ	Val 240	
5		Asp	Gly	Leu	Lys	Gln 245	Tyr	Asp	Gln	Glu	Val 250	Lys	Ser	Gl _. y	Ala	Phe 255	Pro	
		Ser	Glu	Glu	Tyr 260	Thr	Tyr	Lys	Lys	Lys 265	Ile	Met	Asn	Glu	Val 270	Asn	Asn	
10		Asn	Asp															
	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID N	0:52	44:		•							
15		(i)	(B)	LEI	NGTH PE: 6 RAND!	: 430 amino EDNE:	0 am: 0 ac: SS: 8	ino : id sing:	acid	8								
20		(ii)	MOLI	ECULI	E TY	PE: 1	prot	ein										
										٠		•						
25	•	(xi)	SEQ	JENCI	E DES	SCRI	PTIO	N: S	EQ II	ON C	: 524	:						
-		Ser 1	Asp	Asp	Trp	Pro 5	Lys	Ser	Ile	Thr	Ser 10	Leu	Ser	Ile	Arg	Gly 15	Val	
30		Arg	Met	Lys	His 20	Gln	Glu	Thr	Thr	Ser 25	Gln	Gln	Tyr	Asn	Phe 30	Ser	Ile	
		Ile	Lys	His 35	Glý	Asp	Ile	Ser	Thr 40	Pro	Gln	Gly	Phe	Thr 45	Ala	Gly	Gly	
35		Met	His 50	Ile	Gly	Leu	Arg	Ala 55	Asn	Lys	Lys	Asp	Phe 60	Gly	Trp	Ile	Tyr	
		Ser 65	Ser	Ser	Leu	Ala	Ser 70	Ala	Ala	Ala	Val	Tyr 75	Thr	Leu	Asn	Gln	Phe 80	
40		Lys	Ala	Ala	Pro	Leu 85	Ile	Val	Thr	Glu	Asp 90	Thr	Leu	Gln	Lys	Ser 95	Lys	
		Gly	Lys	Leu	Gln 100	Ala	Leu	Val	Val	Asn 105	Ser	Ala	Asn	Ala	Asn 110	Ser	Cys	
4 5		Thr	Gly	Gln 115	Gln	Gly	Ile	Asp	Asp 120	Ala	Arg	Gln	Thr	Gln 125	Thr	Trp	Val	
50		Ala	Gln 130	Gln	Leu	Gln ;	Ile	Pro 135	Ser	Glu	His	Val	Ala 140	Val	Ala	Ser	Thr	
		Gly 145	Val	Ile	Gly	Glu	Tyr 150	Leu	Pro	Met	Asp	Lys 155	Ile	Lys	Thr	Gly	Thr 160	
55		Glu	His	Ile	Lys	Asp 165	Ala	Asn	Phe	Ala	Thr 170	Pro	Gly	Ala	Phe	Asn 175	Glu	

	•	Ala	Ile	Leu	Thr 180		. As p	Thr	Cys	Thr 185	-	His	Ile	Ala	Val 190	Ser	Leu
5		Lys	Ile	A sp 195	Gly	Lys	Thr	Val	Thr 200	Ile	Gly	Gly	Ser	Thr 205	Lys	Gly	Ser
	1	Gly	Met 210	Ile	His	Pro	Asn	Met 215	Ala	Thr	Met	Leu	Ala 220	Phe	Ile	Thr	Thr
10		As p 225	Ala	Ser	Ile	Glu	Ser 230	Asn	Thr	Leu	His	Gln 235	Leu	Leu	Lys	Ser	Ser 240
15	•	Thr	Asp	His	Thr	Phe 245	Asn	Met	Ile	Thr	Val 250	Asp	Gly	Asp	Thr	Ser 255	Thr
	i	Asn	Asp	Met	Val 260	Leu	Val	Met	Ala	Asn 265	His	Gln	Val	Glu	His 270	Gln	Ile
20	1	Leu	Ser	Gln 275	Asp	His	Pro	Gln	Trp 280	Glu	Thr	Phe	Val	Asp 285	Ala	Phe	Asn
	1	Phe	Val 290	Cys	Thr	Phe	Leu	Ala 295	Lys	Ala	Ile	Ala	Arg 300	Asp	Gly	Glu	Gly
25	3	Ala 305	Thr	Lys	Leu	Ile	Ser 310	Val	Asn	Val	Ser	Gly 315	Ala	Lys	Ser	Ile	Ser 320
	.1	Asp	Ala	Arg	Lys	Ile 325	Gly	Lys	Thr	Ile	Val 330	Ser	Ser	Asn	Leu	Val 335	Lys
30	S	Ser	Ala	Ile	Phe 340	Gly	Glu	Asp	Ala	Asn 345	Phe	Gly	Arg	Ile	Ile 350	Thr	Ala
35]	le	Gly	Tyr 355	Ser	Gly	Cys	Glu	Ile 360	Asp	Pro	Asn	Cys	Thr 365	Tyr	Val	Gln
	I	Leu	Asn 370	Gln	Ile	Pro	Val	Val 375	Asp	Lys	Gly	Met	Ala 380	Val	Leu	Phe	Asp
40		31u 185	Gln	Ala	Met	Ser	Asn 390	Thr	Leu	Thr	His	Glu 395	Asn	Val	Thr.	Ile	Asp 400
	V	al	Gln	Leu ,	Gly	Leu 405	Gly	Asn	Ala	Ala	Ala 410	Thr	Ala	Tyr	Gly	Cys 415	Asp
45	Ļ	eu	Ser		Asp 420	Tyr	Val	Arg	Ile	Asn 425	Ala	Ser	Tyr	Arg	Thr 430		
	(2) IN	FOR	MATI	ON F	OR S	EQ I	D NO	:524	5:								
50	(i)	SEQU	ENCE	СНА	RACT	ERIS	TICS	:								

- (A) LENGTH: 469 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: protein

	(xi)	SEQ	JENCI	E DES	SCRII	PTIO	N: SI	EQ II	ON C	524	5:					
5	Asn 1	.Pro	Ala	Leu	Thr 5	Val	Phe	Ala	Phe	Ile 10	Met	Ile	Ile	Ser	Ile 15	Leu
	Leu	Ala	Tyr	Val 20	Phe	Lys	Trp	Leu	Gly 25	Leu	Val	Asp	Asp	Val 30	Leu	Leu
10	Met	Val	Ile 35	Ile	Ile	Ser	Thr	Ile 40	Ser	Leu	Gly	Val	Val 45	Val	Pro	Thr
	Leu	Lys 50	Glu	Met	Asn	Ile	Met 55	Arg	Thr	Thr	Ile	Gly 60	Gln	Phe	Ile	Leu
15	Leu 65	Val	Ala	Val	Leu	Ala 70	Asp	Leu	Val	Thr	Met 75	Ile	Leu	Leu	Thr	Val 80
	Tyr	Gly	Ala	Ile	Asn 85	Gly	Gln	Gly	Gly	Ser 90	Thr	Ile	Trp	Leu	Ile 95	Gly
	Ile	Leu	Val	Val 100	Phe	Thr	Ala	Ile	Ser 105	Tyr	Ile	Leu	Gly	Val 110	Gln	Phe
25	Lys	Arg	Met 115	Ser	Phe	Leu	Gln	Lys 120	Leu	Met	Asp	Gly	Thr 125	Thr	Gln	Ile
	Gly	Ile 130	Arg	Ala	Val	Phe	Ala 135	Leu	Ile	Ile	Leu	Leu 140	Val	Ala	Leu	Ala
30	Glu 145	Gly	Val	Gly	Ala	Glu 150	Asn	Ile	Leu	Gly	Ala 155	Phe	Leu	Ala	Gly	Val 160
	Val	Val	Ser	Leu	Leu 165	Asn	Pro	Asp	Glu	Glu 170	Met	Val	Glu	Lys	Leu 175	Asp
35	Ser	Phe	Gly	Tyr 180	Gly	Phe	Phe	Ile	Pro 185		Phe	Phe	Ile	Met 190	Xaa	Gly
	Val	Asp	Le u 195	Asn	Ile	Pro	Ser	Leu 200	Ile	Lys	Glu	Pro	Lys 205	Leu	Leu	Ile
40	Tle	Ile 210	Pro	Ile	Leu	Ile	Val 215	Ala	Phe	Ile	Ile	Ser 220	Lys	Leu	Ile	Pro
45	Val 225	Met	Phe	Ile	Arg	Arg 230	Trp	Phe	Asp	Met	Lys 235	Thr	Thr	Ile	Ala	Ser 240
	Ala	Phe	Leu	Leu	Thr 245	Ser	Thr	Leu	Ser	Leu 250	Val	Ile	Ala	Ala	Ala 255	Lys
50	Ile	Ser	Glu	Arg 260	Leu	Asn	Ala	Ile	Ser 265	Ala	Glu	Thr	Ser	Gly 270	Ile	Leu
	Ile	Leu	Ser 275	Ala	Val	Ile	Thr	Cys 280	Val	Phe	Val	Pro	Ile 285	Ile	Phe	Lys
<i>55</i>	Lys	Leu 290	Phe	Pro	Val	Pro	Asp 295	Gľu	Phe	Asn	Arg	Lys	Ile	Glu	Val	Ser

	Leu 305		Gly	Lys	Asn	Gln 310	Leu	Thr	Ile	Pro	Ile 315	Ala	Gln	Asn	Leu	Thr 320
5	Ser	Gln	Leu	Tyr	Asp 325	Val	Thr	Leu		Tyr 330	Arg	Lys	Asp	Leu	Ser 335	Asp
•	Arg	Arg	Gln	Leu 340	Ser	Asp	Asp		Thr 345	Met	Ile	Glu	Ile	Ala 350	Asp	Tyr
10	Glu	Gln	Asp 355		Leu	Glu	Arg	Leu 360	Gly	Leu	Phe	Asp	Arg 365	Asp	Ile	Val
	Val	Cys 370	Ala	Thr	Asn	Asp	Asp 375	Asp	Ile	Asn	Arg	Lys 380	Val	Ala	Lys	Leu
15	Ala 385		Ala	His	Gln	Val 390	Glu	Arg	Val	Ile	Cys 395	Arg	Leu	Glu	Ser	Thr 400
20	Thr	Asp	Asp	Thr	Glu 405	Leu	Val	Asp	Ser	Gly 410	Ile	Glu	Ile	Phe	Ser 415	Ser
	Tyr	Leu	Ser	Asn 420	Lys	Ile	Leu	Leu	Lys 425	Gly	Leu	Ile	Glu	Thr 430	Pro	Asn
25	Met	Leu	Asn 435	Leu	Leu	Ser	Asn	Val 440	Glu	Thr	Ser	Leu	Tyr 445	Glu	Ile	Gln
	. Met	Leu 450	Asn	Tyr	Lys	Tyr	Glu 455	Asn	Ile	Gln	Leu	Arg 460	Asn	Phe	Pro	Phe
30	Gly 465	Gly	Asp	Ile	Ile											
(2)	INFO	RMATI	ON E	FOR S	SEQ I	D NC	: 524	16:								
35	(i)	(A) (B) (C)	LEN TYP STR	NGTH: PE: & RANDE	ARACT 414 mino EDNES EY: 1	ami aci S: s	no a d singl	acids	3				•			
40	(ii)	MOLE	CULE	TYP	E: p	rote	in									
45	(xi)	SEQU	ENCE	DES	CRIP	TION	: SE	II Q	NO:	5246	:					
	Ala 1	Ile	Ile	Val-	Ile 5	Leu	Leu	Phe	Leu	Arg 10	Asn	Ile	Arg	Thr	Thr 15	Ala
50	Ile	Ser	Ile	Ile 20	Ser	Ile	Pro	Leu	Ser 25	Leu	Leu	Met	Ala	Le u 30	Ile	Ala
	Leu	-	Leu 35	Ser	Asp	Val	Ser	Leu 40	Asn	Ile	Leu	Thr	Leu 45	Gly	Ala	Leu
55	Thr	Val 50	Ala	Ile	Gly	Arg	Val 55	Ile	Asp	Asp	Ser	Ile 60	Val	Val	Val	Glu

	Asn 65	Ile	Tyr	Arg	Arg	Leu 70	Thr	Asp	Ser	Glu	Glu 75	Gln	Leu	Lys	Gly	Glu 80
. 5	Asn	Leu	Ile	Ile	Ser 85	Ala	Thr	Thr	Glu	Val	Phe	Lys	Pro	Ile	Met 95	Ser
	Ser	Thr	Leu	Val 100	Thr	Ile	Ile	Val	Phe 105	Leu	Pro	Leu		Phe 110	Val	Ser ·
10	Gly	Ser	Val	Gly	Glu	Met	Phe	Arg 120	Pro	Phe	Ala	Leu	Ala 125	Ile	Ala	Phe
	Ser	Leu 130	Leu	Ala	Ser	Leu	Leu 135	Val	Ser	Ile	Thr	Leu 140	Val	Pro	Ala	Leu
15	Ala 145	Ala	Thr	Leu	Phe	Lys 150	Lys	Gly	Val	Lys	Arg 155	Arg	Asn	Lys	Gln	His 160
20	Gln	Glu	Gly	Leu	Gly 165	Val	Val	Ser	Thr	Thr 170	Tyr	Lys	Lys	Val	Leu 175	His
	Trp	Ser	Leu	Asn 180	His	Lys	Trp	Ile	Val 185	Ile	Tle	Leu	Ser	Thr 190	Leu	Ile
25	Leu	Val	Ala 195	Thr	Ile	Val	Phe	Gly 200	Gly	Pro	Arg	Leu	Gly 205	Thr	Ser	Phe
	·Ile	Ser 210	Ala	Gly	Asp	Asp	Lys 215	Phe	Leu	Ala	Ile	Thr 220	Tyr	Thr	Pro	Lys
30	Pro 225	Gly	Glu	Thr	Glu	Gln 230	Ala	Val	Leu	Asn	His 235	Ala	Lys	Asp	Val	Glu 240
	Lys	Tyr	Leu	Lys	Gln 245	Lys	Lys	His	Val	Lys 250	Thr	Ile	Gln	Tyr	Ser 255	Val
35	Gly	Gly	Ser	Ser 260	Pro	Val	Asp	Pro	Thr 265	Gly	Ser	Thr	Asn	Ser 270	Met	Ala
40	Ile	Met	Val 275	Glu	Tyr	Asp	Asn	Asp 280		Pro	Asn	Phe	Asp 285	Val-	Glu	Ala
40	Asp	Lys 290	Val	Ile	Lys	His	Ala 295	Asp	Gly	Phe	Lys	His 300	Pro	Gly	Glu	Trp
45	Lys 305	Asn	Gln	Asp	Leu	Gly 310	Thr	Gly	Ala	Gly	Asn 315	Lys	Ser	Val	Glu	Val 320
	Thr	Val	Lys	Gly	Pro 325	Ser	Met	Asp	Ala	Ile 330	Lys	Ser	Thr	Val	Lys 335	Asp
50	Ile	Glu	Gln	Lys 340	Met	Lys	Gln	Val	Lys 345	Gly	Leu	Ala	Asn	Val 350	Lys	Ser
	Asp	Leu	Ser 355	Gln	Thr	Tyr	Asp	Gln 360	Tyr	Glu	Ile	Lys	Val 365	Asp	Gln	Asn
55	Lys	Ala 370	Ala	Glu	Asn	Gly	Ile 375	Ser	Ala	Ser	Gln	Leu 380	Ala	Met	His	Leu

٠		Asn 385		Asn	Leu	Pro	Glu 390	Lys	Thr	Val	Thr	Thr 395	Val	Lys	Glu	Asn	Gly 400
5		Lys	Thr	Val	Asp	Val 405	Lys	Val	Lys	Gln	Asn 410	Lys	Gln	Thr	Ala		
	(2)	INFO	RMAT	ION	FOR :	SEQ :	ID N	0:52	47:								
10		(i)	(B (C) LE	ngth Pe: Rand		5 am: 5 ac: SS: 1	ino a id sing:	acid	S				. •			
15	·	(ii)	MOL	ECULI	E TY	PE:]	prote	ein				÷					
20		(xi)	SEQ	JENCI	E DE	SCRI	PTIO	N: S)	EQ II	ON C	: 524	7:					·,
		Gly 1	Lys	Pro	Phe	Ile 5	Ile	Gly	Leu	Gly	Asp 10	Ile	Ile	Val	Lys	Lys 15	Leu
25		Thr	Thr	Ile	Leu 20	Phe	Gln	Ţyr	Ĺys	Ile 25	Phe	Pro	Val	Leu	Met 30	Phe	Leu
		. Val	Ser	Thr 35	Gly	Leu	Gly	Ile	Ile 40	Val	Ile	Thr	Gln	Asn 45	Ile	Leu	Ile
30		Ala	As p 50	Phe	Leu	Ala	Lys	Ile 55	Ile	Arg	His	Gln	Phe 60	Gln	Gly	Leu	Trp
		Ile 65	Val	Leu	Phe	Ile	Leu 70	Leu	Gly	Val	Leu	Leu 75	Leu	Arg	Ala	Thr	Val 80
3 <i>5</i>		Gln	Phe	Leu	Asn	Gln 85	Trp	Leu	Gly	Asp	Thr 90	Leu	Ala	Phe	Lys	Val 95	Lys
		His	Met	Leu	Arg 100	Gln	Arg	Val	Ile	Tyr 105	Lys	Asn	Asn	Gly	His 110	Pro	Ile
10		Gly	Glu	Gln 115	Met	Thr	Ile	Leu	Thr 120	Glu	Asn	Ile	Asp	Gly 125	Leu	Ala	Pro
15		Phe	Tyr 130	Lys	Ser	Tyr	Leu	Pro 135	Gln	Val	Phe	Lys	Ser 140	Met	Met	Val	Pro
		Leu 145	Ile	Ile	Ile	Ile	Ala 150	Met	Phe	Phe	Ile	His 155	Phe	Asn	Thr	Ala	Leu 160
50		Ile	Met	Leu	Ile	Thr 165	Ala	Pro	Phe	Ile	Pro 170	Leu	Phe	Tyr	Ile	Ile 175	Phe
,		Gly	Leu	Lys	Thr 180	Arg	Asp	Glu	Ser	Lys 185	Asp	Gln	Met	Thr	Tyr 190	Leu	Asn
ī <i>5</i>		Gln	Phe	Ser 195	Gln	Arg	Phe	Leu	Asn 200	Ile	Ala	Lys	Gly	Leu 205	Val	Thr	Leu

	Lys	Leu 210	Phe	Asn	Arg	Thr	Glu 215		Thr	Glu	Lys	His 220	Ile	Tyr	qaA	Asp	
5	Ser 225	Thr	Gln	Phe	Arg	Thr 230	Leu	Thr	Met	Arg	Ile 235	Leu	Arg	Ser	Ala	Phe 240	
	Leu	Ser	Gly	Leu	Met 245	Leu	Glu	Phe	Ile	Ser 250	Met	Leu	Gly	Ile	Gly 255	Leu	
10	Val	Ala	Leu	Glu 260	Ala	Thr	Leu	Ser	Leu 265	Val	Val	Phe		Asn 270	Ile	qeA	
	Phe	Lys	Thr 275	Ala	Ala	Ile	Ala	Ile 280	Ile	Leu	Ala	Pro	Glu 285	Phe	Tyr	Asn	
15	Ala	Ile 290	Lys	Asp	Leu	Gly	Gln 295	Ala	Phe	His	Thr	Gly 300	Lys	Gln	Ser	Glu	
	Gly 305		Ser	Asp	Val	Val. 310	Phe	Glu	Phe	Leu	Glu 315	Gln	Pro	Asn	Tyr	Asn 320	
	Asn	Glu	Phe	Leu	Leu 325	Lys	Tyr	Glu	Glu	Asn 330	Gln	Lys	Pro	Phe	Ile 335	Gln	
25	Leu	Thr	Asp	Ile 340	Ser	Phe	Arg	Tyr	Asp 345	Asp	Ser	qaA		Leu 350	Val	Leu	
	. Asn	Asp	Leu 355	Asn	Leu	Glu		Phe 360	Lys	Gly _,	Asp		11e 365	Ala	Leu	Val	
30	Gly	Pro 370	Ser	Gly	Ala	Gly	Lys 375	Ser	Thr	Leu	Thr	His 380	Leu	Ile	Ala	Gly	
	Val 385	Tyr	Gln	Pro	Thr	Ile 390	Gly	Thr	Ile	Ser	Thr 395	Asn	Gln	Arg	Asp	Leu 400	
35	Asn	Ile	Gly	Ile	Leu 405	Ser	Gln	Gln	Pro	Tyr 410	Ile	Phe	Ser	Ala	Ser 415	Ile	
	Lys	Glu	Asn	Ile 420	Thr	Met	Phe	Lys	Asp 425	Ile	Glu	Asn	Asn	Thr. 430	Ile	Glu	
40	Glu	Val	Leu 435	Asp	Glu	Val	Gly	Leu 440	Leu	Asp	Lys	Val	Gln 445	Ser	Phe	Thr	
	Lys	Gly 450	Ile	Asn	Thr	Ile	Ile 455	Gly	Glu	Gly	Gly	Glu 460	Met	Leu	Ser	Gly	
45	Gly 465	Gln	Met	Arg	Arg	Ile 470	Glu	Leu	Cys	Arg	Leu 475	Leu	Val	Met	Lys	Pro 480	
50	Asp	Leu	Val	Ile	Phe 485	Asp	Glu	Pro	Ala	Thr 490	Gly	Leu	Asp	Ile	Gln 495	Thr	
	Glu	His	Met	Ile 500	Gln	Asn	Val	Leu	Phe 505	Gln	His	Phe	Lys	Asp 510	Thr	Thr	
<i>55</i>	Met	Ile	Val 515	Ile	Ala	His	Arg	Asp 520	Asn	Thr	Ile	Arg	His 525	Leu	Gln	Arg	

	-	Arg	Leu 530		Ile	Glu	Asn	Gly 535	Arg	Leu	Ile	Ala	Asp 540	Asp	Arg	Asn	Ile
5		Ser 545		Asn	Ile	Thr	Glu 550	Asn	Gly	Asp	Asp	Leu 555					
	(2)	INFO	RMAT	ION	FOR	SEQ	ID N	0:52	48:								٠
10		(i)	(A (B (C) LE) TY) ST	NGTH PE: RAND	: 39 amin EDNE	TERI: 3 am o ac SS: line:	ino id sing	acid	s							
15		(ii)	MOL	ECUL	E TY	PE: 1	prot	ein						٠			
		٠,										4					
20		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	on o	: 5241	B: .					
		Val 1	Trp	Lys	Leu	Lys 5	Met	Arg	Trp	Ile	Lys 10	Arg	Lys	Lys	Lys	Asn 15	Phe
25		Leu	Asn	Ser	Lys 20	Phe	Asn	Phe	Asn	Asn 25	Gly	Lys	Ile [.]	Ala	Thr 30	Tyr	Leu
•		Tyr	Lys	Glu 35	Arg	Thr	Ala	Met	Trp 40	Asn	Lys	Asn	Arg	Leu 45	Thr	Gln	Met
30		Leu	Ser 50	Ile	Glu	Tyr	Pro	Ile 55	Ile	Gln	Ala	Gly	Met 60	Ala	Gly	Ser	Thr
		Thr 65	Pro	Lys	Leu	Val	Ala 70	Ser	Val	Ser	Asn	Ser 75	Gly	Gly	Leu	Gly	Thr 80
35		Ile	Gly	Ala	Gly	Tyr 85	Phe	Asn	Thr	Gln	Gln 90	Leu	Glu	Asp	Glu	Ile 95	Asp
		Tyr	Val	Arg	Gln 100	Leu	Thr	Ser	Asn	Ser 105	Phe	Gly	Val	Asn	Val 110	Phe	Val
40 [°]		Pro	Ser	Gln 115	Gln	Ser	Tyr	Thr	Ser 120	Ser	Gln	Ile	Glu	Asn 125	Met	Asn	Ala
45		Trp	Leu 130	Lys	Pro	Tyr	Arg	Arg 135	Ala	Leu	His	Leu	Glu 140	Glu	Pro	Val	Val
45		Lys 145	Ile	Thr	Glu	Glu	Gln 150	Gln	Phe	Lys	Cys	His 155	Ile	Asp	Thr	Ile	Ile 160
50		Lys	Lys	Gln	Val	Pro 165	Val	Cys	Cys	Phe	Thr 170	Phe	Gly	Ile	Pro	Ser 175	Glu
	:	Gln	Ile	Ile	Ser 180	Arg	Leu	Lys	Ala	Ála 185	Asn	Val	Lys	Leu	Ile 190	Gly	Thr
55		Ala	Thr	Ser 195	Val	Asp	Glu	Ala	Ile 200	Ala	Asn	Glu	Lys	Ala 205	Gly	Met	Asp

55		Gly	Thr	Leu 35	Ile	Gly	Phe	Gly	Leu 40	Leu	Ser	Ser	Lys	Glu 45	Ala	Asp	Ala
		Lys	His	Ala	Ile 20	Arg	Lys	Lys	Ser	Ile 25	Gly	Val	Ala	Ser	Val 30	Leu	Val
50		Asn 1	Asp	Phe	Leu	Lys 5	Arg	Gly	Asn	Lys	Met 10	Asn	Met	Lys	Lys	Lys 15	Glu
		(xi)	SEQU	JENCE	DES	SCRIE	PTION	: SI	EQ II	NO:	5249): `					
15																	
																÷	
	•	(ii)	MOLE	CULE	TYI	PE: p	prote	ein									
10				ST	RANDI	EDNES	SS: S	ingl	.e					•	þ.		
		(i)	(A)	LE	NGTH	ARACT : 936 amino	ami	no a		5							
35	(2)	INFO	RMAT	ION I	FOR S	SEQ 1	ID NO	524	19:								
		Gln .385	Ile	Asn	Gln	Ile	Met 390	Gln	Tyr	Lys							
30		Leu	Ala 370	Thr	Thr	His	Pro	Ala 375		Thr	Ile	Met	Ser 380	Asn	Ile	Ile	Asn
•		, Ile	Gly	Asp 355	Lys	Glu	Leu	Ile	His 360	Met	Trp	Ser	Gly	Gln ,365	Ser	Pro	Arg
25		Pro	Ile	Gln	Asn 340	Glu	Leu	Thr	Ser	Ser 345	Ile	Arg	Lys	Ala	Ala 350	Ala	Asn
•			, ,			Glu 325					330					335	
20		305				Ala	310					315					320
*	•	•	290			Arg		295					300			_	
15		•		275		Gly			.280					285			
10	•				260					265					270		
10	٠.					245			-		250		•			255	
5		225		Tle	V=1	Asp	230 Val	V=1	Ser	: :	Dro	235 Val	י.	21 s	פוע	Gl se	240
r		Leu			Lys	Asn	Gln		Pro	Met	Val	Gly		Ile	Ser	Leu	Val
		Ala	Ile 210		Ala	Gln	Gly	Ser 215	Glu	Ala	Gly	Gly	His 220	Arg	Gly	Ser	Phe

	Ser	Glu 50	Asn	Ser	Val	Thr	Gln 55	Ser	Asp	Ser	Ala	Ser 60	Asn	Glu	Ser	Lys
5	Ser 65	Asn	Asp	Ser	Ser	Ser 70	Val	Ser	Ala	Ala	Pro 75	Lys	Thr	Asp	Asp	Thr 80
	Asn	Val	Ser	.Asp	Thr 85	Lys	Thr	Ser	Ser	Asn 90	Thr	Asn	Asn	Gly	Glu 95	Thr
10	Ser	Val	Ala	Gln 100	Asn	Pro	Ala	Gln	Gln 105	Glu	Thr	Thr	Gln	Ser 110	Ser	Ser
•	Thr	Asn	Ala 115	Thr	Thr	Glu	Glu	Thr 120	Pro	Val	Thr	Gly	Glu 125	Ala	Thr	Thr
15	Thr	Thr 130	Thr	Asn	Gln	Ala	Asn 135	Thr	Pro	Ala	Thr	Thr 140	Gln	Ser	Ser	Asn
20	Thr 145	Asn	Ala	Glu	Glu	Leu 150	Val	Asn	Gln	Thr	Ser 155	Asn	Glu	Thr	Thr	Ser 160
20	Asn	Asp	Thr	Asn	Thr 165	Val	Ser	Ser	Val	Asn 170	Ser	Pro	Gln	Asn	Ser 175	Thr
25	Asn	Ala	Glu	Asn 180	Val	Ser	Thr	Thr	Gln 185	Asp	Thr	Ser	Thr	Glu 190	Ala	Thr
	Pro	Ser	Asn 195	Asn	Glu	Ser	Ala	Pro 200	Gln	Ser	Thr	Asp	Ala 205	Ser	Asn	Lys
30	Asp	Val 210	Val	Asn	Gln	Ala	Val 215	Asn	Thr	Ser	Ala	Pro 220	Arg	Met	Arg	Ala
	Phe 225	Ser	Leu	Ala		Val 230	Ala	Ala	Asp	Ala	Pro 235	Val	Ala	Gly	Thr	As p 240
35	Ile	Thr	Asn	Gln	Leu 245	Thr	Asn	Val	Thr	Val 250	Gly	Ile	qaA	Ser	Gly 255	Thr
· · .	Thr	Val		Pro 260	His	Gln	Ala	Gly	Tyr 265	Val	Lys	Leu	Asn	Tyr. 270	Gly	Phe
40	Ser	Val	Pro 275		Ser	Ala	Val.	Lys 280	Gly	Asp	Thr	Phe	Lys 285	Ile	Thr	Val
	Pro	Lys 290	Glu	Leu	Asn	Leu	Asn 295	Gly	Val	Thr	Ser	Thr 300	Ala	Lys	Val	Pro
45	Pro 305	Ile	Met	Ala		Asp 310	Gln	Val	Leu	Ala	Asn 315	Gly	Val	Ile	Asp	Ser 320
50	Asp	Gly	Asn	Val	Ile 325	Tyr	Thr	Phe	Thr	Asp 330	Tyr	Val	Asn	Thr	Lys 335	Asp
	Asp	Val	Lys	Ala 340	Thr	Leu	Thr	Met	Pro 345	Ala	Tyr	Ile	Asp	Pro 350	Glu	Asn
<i>55</i>	Val	Lys	Lys 355	Thr	Gly	Asn	Val	Thr 360	Leu	Ala	Thr	Gly	Ile 365		Ser	Thr

	Thr	Ala 370	Asn	Lys	Thr	Val	Leu 375	Val	Asp	Tyr	Glu	Lys 380	Tyr	Gly	Lys	Phe
5	Tyr 385	Asn	Leu	Ser	Ile	Lys 390	Gly	Thr	Ile	Asp	Gln 395	Ile	Asp	Lys	Thr	Asn 400
	Asn	Thr	Tyr	Arg	Gln 405	Thr	Ile	Tyr	Val	Asn 410	Pro	Ser	Gly	Asp	Asn 415	Val
10	Ile	Ala	Pro	Val 420	Leu	Thr	Gly	Asn	Leu 425	Lys	Pro	Asn	Thr	Asp 430	Ser	Asn
	Ala	Leu	Ile 435	Asp	Gln	Gln	Asn	Thr 440	Ser	Ile	Lys	Val	Tyr 445	Lys	Val	Asp
15	Asn	Ala 450	Ala	Asp	Leu	Ser	Glu 455	Ser	Tyr	Phe	Val	Asn 460	Pro	Glu	Asn	Phe
	Glu 465	Asp	Val	Thr	Asn	Ser 470	Val	Asn	Ile	Thr	Phe 475	Pro	Asn	Pro	Asn	Gln 480
20	Tyr	Lys	Val	Glu	Phe 485	Asn	Thr	Pro	Asp	Asp 490	Gln	Ile	Thr	Thr	Pro 495	Tyr
25	Ile	Val	Val	Val 500	Asn	Gly	His	Ile	Asp 505	Pro	Asn	Ser	Lys	Gly 510	Asp	Leu
 -	Ala	Leu	Arg 515	Ser	Thr	Leu	Tyr	Gly 520	Tyr	Asn	Ser	Asn	Ile 525	Ile	Trp	Arg
30	Ser	Met 530	Ser	Trp	Asp	Asn	Glu 535	Val	Ala	Phe	Asn	Asn 540	Gly	Ser	Gly	Ser
,	Gly 545	Asp	Gly	Ile	Asp	Lys 550	Pro	Val	Val	Pro	Glu 555	Gln	Pro	Asp	Glu	Pro 560
35	Gly	Glu	Ile	Glu	Pro 565	Ile	Pro	Glu	Asp	Ser 570	Asp	Ser	Asp	Pro	Gly 575	Ser
	As p	Ser	Gly	Ser 580	Asp	Ser	Asn	Ser	Asp 585	Ser	Gly	Ser	Asp	Ser. 590	Gly	Ser
40	Asp	Ser	Thr 595	Ser	Asp	Ser	Gly	Ser 600	Asp	Ser	Ala	Ser	Asp 605	Ser	Asp	Ser
	Ala	Ser 610	Asp	Ser	Asp	Ser	Ala 615	Ser	Asp	Ser	Asp	Ser 620	Ala	Ser	Asp	Ser
45	Asp 625	Ser	Ala	Ser	Asp	Ser 630	Asp	Ser	Asp	Asn	Asp 635	Ser	Asp	Ser	Asp	Ser 640
50	Asp	Ser	Asp	Ser	Asp 645	Ser	Asp	Ser	Asp	Ser 650	Asp	Ser	Asp	Ser	As p 655	Ser
•	Asp	Ser	qeA	Ser 660	Asp	Ser	Asp	Ser	Asp 665	Ser	Asp	Ser	Asp	Ser 670	Asp	Ser
55	Asp	Ser	Asp 675	Ser	Asp	Ser	Asp	Ser 680	Asp	Ser	Asp	Ser	Asp 685	Ser	Asp.	Ser

•		Asp	Ser 690	Asp	Ser	Asp	Ser	Asp 695	Ser	Asp	Ser	Asp	Ser 700	Asp	Ser	Asp	Ser
5	i	Asp 705	Ser	Asp	Ser	Asp	Ser 710	Asp	Ser	Asp	Ser	As p 715	Ser	Asp	Ser	Asp	Ser 720
		Asp	Ser	Asp	Ser	Asp 725	Ser	Asp	Ser	Asp	Ser 730	Asp	Ser	Asp	Ser	Asp 735	Ser
0		Asp	Ser	Asp	Ser 740	Asp	Ser	Asp	Ser	Asp 745	Ser	Asp	Ser	Asp	Ser 750	Asp	Ser
15		Asp	Ser	Asp 755	Ser	Asp	Ser	Asp	Ser 760	Asp	Ser	Asp	Ser	Asp 765	Ser	Asp	Ser
		Asp	Ser 770	Asp	Ser	Asp	Ser	Asp 775	Ser	Ala	Ser	Asp	Ser 780	Asp	Ser	Asp	Ser
20		Asp 785	Ser	Asp	Ser	Asp	Ser 790	Asp	Ser	Asp	Ser	As p 795	Ser	Asp	Ser	Asp	Ser 800
		Asp	Ser	Asp	Ser	Asp 805	Ser	Asp	Ser	Asp	Ser 810	Asp	Ser	Asp	Ser	Asp 815	Ser
25		Glu	Ser	Asp	Ser 820	Asp	Ser	Asp	Ser	Asp 825	Ser	Asp	Ser	Asp	Ser 830	Asp	Ser
		Asp	Ser	As p 835	Ser	Asp	Ser	Asp	Ser 840	Ala	Ser	Asp	Ser	Asp 845	Ser	Gly	Ser
10		Asp	Ser 850	Asp	Ser	Ser	Ser	As p 855	Ser	Asp	Ser	Glu	Ser 860	Asp	Ser	Asn	Ser
15		Asp 865	Ser	Glu	Ser	Val	Ser 87 0	Asn	Asn	Asn	Val	Val 875	Pro	Pro	Asn	Ser	Pro 880
		Lys	Asn	Gly	Thr	Asn 885	Ala	Ser	Asn	Lys	Asn 890		Ala	Lys	Asp	Ser 895	Lys
0		Glu	Pro	Leu	Pro 900	Asp	Thr	Gly	Ser	Glu 905	Asp	Glu	Ala	Asn	Thr 910	Ser	Leu
		Ile	Trp	Gly 915	Leu	Leu	Ala	Ser	Ile 920	Gly	Ser	Leu	Leu	Leu 925	Phe	Arg	Arg
5		Lys	Lys 930	Glu	Asn	Lys	Asp	Lys 935	Lys						•		
	(2)	INFOR	TAM	ON F	OR S	SEQ I	D NO	:525	60:								
		(i)	(A) (B) (C)	JENCE LEN TYP STR TOP	IGTH: PE: a PANDE	194 minc DNES	ami aci S: s	no a d singl	cids	.							

(ii) MOLECULE TYPE: protein

		(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: 5	EQ I	D NO	: 525	D:	•		,		
5 .		Val 1	Ser	Lys	Leu	Lys 5	Lys	Glu	Ile	Leu	Glu 10	Trp	Ile	Ile	Ser	Ile 15	Ala
		Val	Ala	Phe	Val 20	Ile	Leu	Phe	Ile	Val 25	Gly	Lys	Phe	Ile	Val 30	Thr	Pro
10	•	Tyr	Thr	Ile 35	Lys	Gly	Glu	Ser	Met 40	Asp	Pro	Thr	Leu	Lys 45	Asp	Gly	Glu
		Arg	Val- 50	Ala	Val	Aşn	Ile	Val 55	Gly	Tyr	Lys	Thr	Gly 60	Gly	Leu	Glu	Lys
15		Gly 65	Asn	Val	Val	Val	Phe 70	His	Ala	Asn	Lys	Asn 75	Asp	Asp	Tyr	Val	Lys 80
	• •	Arg	Val	Ile	Gly	Val 85	Pro	Gly	Asp	Lys	Val 90	Glu	Tyr	Lys	Asn	Asp 95	Thr
		Leu	Tyr	Val	Asn 100	Gly	Lys	Lys	Gln	Asp 105	Glu	Pro	Tyr	Leu	Asn 110	Tyr	Asn
25		Leu	Lys	His 115	Lys	Gln	Gly	Asp	Tyr 120	Ile	Thr	Gly	Thr	Phe 125	Gln	Val	Lys
		Asp	Leu 130	Pro	Asn	Ala	Asn	Pro 135	Lys	Ser	Asn	Val	Ile 140	Pro	Lys	Gly	Lys
30		Tyr 145	Leu	Val	Leu	Gly	Asp 150	Asn	Arg	Glu	Val	Ser 155	Ľys	Asp	Ser	Arg	Ala 160
		Phe	Gly	Leu	Ile	Asp 165	Glu	Asp	Gln	Ile	Val 170	Gly	Lys	Val	Ser	Phe 175	Gln
35		Val	Leu	Ala	His 180	Phe	Ser	Glu	Phe	Gln 185	Thr	Ser	Ilė	Ser	Xaa 190	Leu	Lys
		Ile	Leu														
40	(2)	INFOF	ITAMS	ON F	OR S	SEQ I	D NC	525	51:								
45		(i)	(B)	LEN TYP STR	IGTH : PE : = = LANDE	RACT 559 minc DNES Y: 1	ami aci S: s	.no a .d singl	cids	3							
		(ii)	MOLE	CULE	TYF	E: p	rote	in									
50											•					•	
		(xi)	SEQU	ENCE	DES	CRIP	TION	: SE	Q II	NO:	5251	:					
55		Leu 1	Lys	Ala	Xaa	Tyr 5	Ala	Lys	Leu	Asp	Asp 10	Val	Ser	Lys	Phe	Glu 15	Asp

	Val	Thr	Asp	Asn 20	Met	Ser	Leu	Asp	Phe 25	Asp	Thr	Asn	Gly	Gly 30	Tyr	Ser
5	Leu	.Asn	Phe 35	Asn	Asn	Leu	Asp	Gln 40	Ser	Lys	Asn	Tyr	Val 45	Ile	Lys	Tyr
	Glu	Gly 50	Tyr	Tyr	Asp	Ser	Asn 55	Ala	Ser	Asn	Leu	Glu 60	Phe	Gln	Thṛ	His
10	Leu 65	Phe	Gly	Tyr	Tyr	Asn .70	Tyr	Tyr	Tyr	Thr	Ser 75	Asn	Leu	Thr	Trp	Lys 80
15	Asn	Gly	Val	Ala	Phe 85	Tyr	Ser	Asn	Asn	Ala 90	Gln	Gly	Asp	Gly	Lys 95	Asp
	Lys	Leu	Lys	Glu 100	Pro	Ile	Ile	Glu	His 105	Ser	Thr	Pro	Ile	Glu 110	Leu	Glu
20	Phe	Lys	Ser 115	Glu	Pro	Pro	Val	Glu 120	Lys	His	Ğlu	Leu	Thr 125	Gly	Thr	Ile
	Glu	Glu 130	Ser	Asn	Asp	Ser	Lys 135	Pro	Ile	Asp	Phe	Glu 140	Tyr	His	Thr	Ala
25	Val 145	Glu	Gly	Ala	Glu	Gly 150	His	Ala	Glu	Gly	Thr 155	Ile	Glu	Thr	Glu	Glu 160
	Asp	•			165					170					175	
30				180					185	Glu				190		
	Gly	Gln	Val 195	Thr	Thr	Glu	Ser	Asn 200	Leu	Val	Glu	Phe	Asp 205	Glu	Asp	Ser
35		210					215			Ser		220				
40 .	Asp 225	Thr	Lys	Glu	Tyr	Thr 230	Thr	Glu	Ser	Asn	Leu 235	Ile	Glu	Leu.	Val	Asp 240
	Glu	Leu	Pro	Glu	Glu 245	His	Gly	Gln	Ala	Gln 250	Gly	Pro	Ile	Glu	Glu 255	Ile
45	Thr	Glu	Asn	Asn 260	His	His	Ile	Ser	His 265	Ser	Gly	Leu	Gly	Thr 270	Glu	Asn
	Gly	His	Gly 275	Asn	Tyr	Gly	Val	Ile 280	Glu	Glu	Ile	Glu	Glu 285	Asn	Ser	His
50	Val	Asp 290	Ile	Lys	Ser	Glu	Leu 295	Gly	Tyr	Glu	Gly	Gly 300	Gln	Asn	Ser	Gly
	Asn 305	Gln	Ser	Phe	Glu	Glu 310	Asp	Thr	Glu	Glu	Asp 315	Lys	Pro	Lys	Tyr	Glu 320
55	Gln	Gly	Gly		Ile 325	Val	Asp	Ile	Asp	Phe 330	Asp	Ser	Val	Pro	Gln 335	Ile

		His	Gly	Gln	Asn 340	Asn	Gly	Asn	Gln	Ser 345	Phe	Glụ	Glu	Asp	Thr 350	Glu	Lys
5		Asp	Lys	Pro 355	Lys	Tyr	Glu	Gln	Gly 360	Gly	Asn	Ile	Ile	Asp 365	Ile	Asp	Phe
		Asp	Ser 370	Val	Pro	His	Ile	His 375	Gly	Phe	Asn	Lys	His 380	Thr	Glu	Ile	Ile
10		Glu 385	Glu	Asp	Thr	Asn	Lys 390	Asp	Lys	Pro	Asn	Tyr 395	Gln	Phe	Gly	Gly	His 400
		Asn	Ser	Val	Asp	Phe 405	Glu	Glu	Asp	Thr	Leu 410	Pro	Gln	Val	Ser	Gly 415	His
15		Asn	Glu	Gly	Gln 420	Gln	Thr	Ile	Glu	Glu 425	Asp	Thr	Thr	Pro	Pro 430	Ile	Val
20	•	Pro	Pro	Thr 435	Pro	Pro	Thr	Pro	Glu 440	Val	Pro	Ser	Glu	Pro 445	Glu	Thr	Pro
	:	Thr	Pro 450	Pro	Thr	Pro	Glu	Val 455		Ser	Glu	Pro	Glu 460	Thr	Pro	Thr	Pro
25		Pro 465	Thr	Pro	Glu	Val	Pro 470	Thr	Glu	Pro	Gly	Lys 475	Pro	Ile	Pro	Pro	Ala 480
		Lys	Glu	Glu	Pro	Lys 485	Lys	Pro	Ser	Lys	Pro 490	Val	Glu [°]	Gln	Gly	Lys 495	Val
30		Val	Thr	Pro	Val 500	Ile	Glu	Ile	Asn	Glu 505	Lys	Val	Lys	Ala	Val 510	Val	Pro
		Thr	Lys	Lys 515	Ala	Gln	Ser	Lys	Lys 520	Ser	Glu	Leu	Pro	Glu 525	Thr	Gly	Gly
35		Glu	Glu 530	Ser	Thr	Asn	Asn	Gly 535	Met	Leu	Phe	Gly	Gly 540	Leu	Phe	Ser	Ile
		Leu 545	Gly	Leu	Ala	Leu	Leu 550	Arg	Arg	Asn	Lys	Lys 555	Asn	His	Lys	Ala	
40	(2)	INFOR	TAMS	ON F	FOR S	EQ I	D NC	:525	32 :								
45		(i)	(B)	ENCE LEN TYF STR TOF	GTH: E: a CANDE	251 minc DNES	ami aci S: s	no a .d :ingl	cids	•	•						
		(ii)	MOLE	CULE	TYP	E: p	rote	in									
50	•																
· ·		(xi)	SEQU	IENCE	DES	CRIF	TION	: SE	Ö ID	NO:	5252	:					
55		Thr 1	Lys	Asn	Glu	Lys 5	Ile	Asn	Asp	Val	Thr 10	Ala	Val	Ala	Glu	Lys 15	Glu

Val Val Glu Glu Thr Lys Ala Thr Gly Thr Asp Val Thr	Asn Lys Val	al
Glu Val Glu Glu Gly Ser Glu Ile Val Gly His Lys Gln 5 35 40 45	Asp Thr Asn	sn.
Val Val Asn Pro His Asn Ala Glu Arg Val Thr Leu Lys 50 55 60	Tyr Lys Trp	æ
Lys Phe Gly Glu Gly Ile Lys Ala Gly Asp Tyr Phe Asp 65 70 75	Phe Thr Leu 80	
Ser Asp Asn Val Glu Thr His Gly Ile Ser Thr Leu Arg	Lys Val Pro 95	:o
Glu Ile Lys Ser Thr Asp Gly Gln Val Met Ala Thr Gly	Glu Ile Ile 110	.e
Gly Glu Arg Lys Val Arg Tyr Thr Phe Lys Glu Tyr Val (115 120 125	Gln Glu Lys	's
Lys Asp Leu Thr Ala Glu Leu Ser Leu Asn Leu Phe Ile i 130 135 140	Asp Pro Thr	ir
Thr Val Thr Gln Lys Gly Asn Gln Asn Val Glu Val Lys 1 145 150 155	Leu Gly Glu 160	
Thr Thr Val Ser Lys Ile Phe Asn Ile Gln Tyr Leu Gly (Gly Val Arg 175	g
Asp Asn Trp Gly Val Thr Ala Asn Gly Arg Ile Asp Thr 1 180 185	Leu Asn Lys 190	'S
Val Asp Gly Lys Phe Ser His Phe Ala Tyr Met Lys Pro 1 195 200 205	Asn Asn Gln	.n
Ser Leu Ser Ser Val Thr Val Thr Gly Gln Val Thr Lys C 210 215 220	Gly Asn Lys	'S
Pro Gly Val Asn Asn Pro Thr Val Lys Val Tyr Lys His 1 225 230 235	Ile Gly Ser 240	
Asp Asp Leu Ala Glu Ser Xaa Xaa Cys Lys Ala 245 250	•	
(2) INFORMATION FOR SEQ ID NO:5253:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 amino acids (B) TYPE: amino acid		
(C) STRANDEDNESS: single (D) TOPOLOGY: linear		
(C) STRANDEDNESS: single		

		Ile 1	Leu	His	Leu	Arg 5	Glu	Asn	Ile	Ile	Val	Lys	Ser	Asn	Leu	Arg 15	Tyr
5		Gly	Ile	Arg	Lys 20	His	Lys	Leu	Gly	Ala 25	Ala	Ser	Val	Phe	Leu 30	Gly	Thr
		Met	Ile	Val 35	Val	Gly	Met	Gly	Gln 40	Glu	Lys	Glu	Ala	Ala 45	Ala	Ser	Glu
10		Gln	Asn 50	Asn	Thr	Thr	Val	Glu 55	Glu	Ser	Gly	Ser	Ser 60	Ala	Thr	Glu	Ser
		Lys 65	Ala	Ser	Glu	Thr	Gln 70	Thr	Thr	Thr	Asn	Asn 75	Val	Asn	Thr	Ile	Asp 80
15		Glu	Thr	Gln	Ser	Tyr 85	Ser	Ala	Thr	Ser	Thr 90	Glu	Gln	Pro	Ser	Gln 95	Ser
20		Thr	Gln	Val	Thr 100	Thr	Glu	Glu	Ala	Pro 105	_	Thr	Val	Gln	Ala 110	Pro	Lys
	·	Val		Thr 115	Ser	Arg	Val	Asp	Leu 120	Pro	Şer	Glu	Lys	Val 125	Ala	Asp	Lys
25		Glu	Thr 130	Thr	Gly	Thr	Gln	Val 135	Asp	Ile	Ala	Gln	Pro 140	Ser	Asn	Val	Ser
		Glu 145	Ile	Lys	Pro	Arg	Met 150	Lys	Arg	Ser	Met	Thr 155	Leu	Gln	Gln	Leu	Gln 160
30		Arg	Lys	Lys	•											•	
	(2)	INFO	TAMS	ON I	FOR S	SEQ 1	D N	525	54 :		•						
35	(i) SEQUENCE CHARACTERISTICS:																
40	·	(ii)	MOLE	ECULI	E TYI	E: p	rote	ein								. •	
													`				
45		(xi)	SEQU	JENCI	DES	CRIE	OIT	į: SE	EQ II	NO:	5254	: :					
		Ile 1	Leu	His	Leu	Lys 5	Gly	Asp	Ile	Ile	Val 10	Lys	Asn	Asn	Leu	Arg 15	Tyr
50		Gly	Ile	Arg	Lys 20	His	Lys	Leu	Gly	Ala 25	Ala	Ser	Val	Phe	Leu 30	Gly	Thr
		Met	Ile	Val 35	Val	Gly	Met	Gly	Gln 40	Asp	Lys	Glu	Ala	Ala 45	Ala	Ser	Glu
5 5		Gln	Lys 50	Thr	Thr	Thr	Val	Glu 55	Glu	Asn	Gly	Asn	Ser 60	Ala	Thr	Asp	Asn
	•																

	Lys 65	Thr	Ser	Glu	Thr	Gln 70	Thr	Thr	Ala	Thr	Asn 75	Val	Asn	His	Ile	Glu 80
5	Glu	Thr	Gln	Ser	Tyr 85	Asn	Ala	Thr	Val	Thr 90	Glu	Gln	Pro	Ser	Asn 95	Ala
•	Thr	Gln	Val	Thr 100	Thr	Glu	Glu	Ala	Pro 105	Lys	Ala	Val	Gln	Ala 110	Pro	Gln
10	Thr	Ala	Gln 115	Pro	Ala	Asn	Ile	Glu 120		Val	Lys	Glu	Glu 125		Val	Lys
	Glu	Glu 130	Ala	Lys	Pro	Gln	Val 135	Lys	Glu	Thr	Thr	Gln 140	Ser	Glņ	Asp	Asn
15	Ser 145	-	Asp	Gln	Arg	Gln 150	Val	Asp	Leu	Thr	Pro 155	Lys	Lys	Ala	Thr	Gln 160
20	Asn	Gln	Val	Ala	Glu 165	Thr	Gln	Val	Glu	Val 170	Ala	Gln	Pro		Thr 175	Ala
	Ser	Glu	Ser	Lys 180	Pro	Arg	Val	Thr	Arg 185	Ser	Ala	Asp	Val	Ala 190	Glu	Ala
25	Lys	Glu	Ala 195	Ser	Asn	Ala	Lys	Val 200		Tḥr	Gly	Thr	As p 205	Val	Thr	Ser
	Lys	Val 210	Thr	Val	Glu	Ile	Gly 215	Ser	Ile	Glu	Gly	His 220	Asn	Asn	Thr	Asn
30	Lys 225	Val	Glu	Pro	His	Ala 230	Gly	Gln	Arg	Ala	Val 235	Leu	Lys	Tyr	Lys	Leu 240
	Lys	Phe	Glu	Asn	Gly 245	Leu	His	Gln	Gly	As p 250	Tyr	Phe	Asp	Phe	Thr 255	Leu
35	Ser	Asn	Asn	Val 260	Asn	Thr	His	Gly	Val 265	Ser	Thr	Ala	Arg	Lys 270	Val	Pro
	Glu '	Ile	Lys 275	Asn	Gly	Ser.	Val	Val 280	Met	Ala	Thr	Gly	Glu 285	Val-	Leu	Glu
40	Gly	Gly 290	Ļys	Ile	Arg	Tyr	Thr 295	Phe	Thr	Asn	Asp	Ile 300	Glu	Asp	Lys	Val
45	Asp 305	Val	Thr	Ala	Glu	Leu 310	Glu	Ile	Asn	Leu	Phe 315	Ile	Asp	Pro	Lys	Thr 320
	Val	Gln	Thr	Asn	Gly 325	Asn	Gln	Thr	Ile	Thr 330	Ser	Thr	Leu	Asn	Glu 335	Glu
50	Gln	Thr	Ser	Lys 340	Glu	Leu	Asp	Val	Lys 345	Tyr	Lys	Asp	Gly	Ile 350	Gly	Asn
	Tyr	Tyr	Ala 355	Asn	Leu	Asn	Gly	Ser 360	Ile	Glu	Thr	Phe	Asn 365	Lys	Ala	Asn
55	Asn	Arg 370	Phe	Ser	His	Val	Ala 375	Phe	Ile	Lys	Pro	Asn 380	Asn	Gly	Lys	Thr

	Thr 385	Ser	Val	Thr	Val	Thr 390	Gly	Thr	Leu	Met	Lys 395	Gly	Ser	Asn	Gln	Asn 400
5	Gly	Asn	Gln	Pro	Lys 405	Val	Arg	Ile	Phe	Glu 410	Tyr	Leu	Gly	Asn	Asn 415	Glu
,	Asp	Ile	Ala	Lys 420	Ser	Val	Tyr	Ala	Asn 425	Thr	Thr	Asp	Thr	Ser 430	Lys	Phe
10	Lys	Glu	Val 435	Thr	Ser	Asn	Met	Ser 440	Gly	Asn	Leu	Asn	Leu 445	Gln	Asn	Asn
	Gly	Ser 450	Tyr	Ser	Leu	Asn	Ile 455	Glu	Asn	Leu	Asp	Lys 460	Thr	Tyr	Val	Val
15	His 465	Tyr	Asp	Gly	Glu	Tyr 470	Leu	Asn	Gly	Thr	Asp 475	Glu	Val	Asp	Phe	Arg 480
20	Thr	Gln	Met	Val	Gly 485	His	Pro	Glu	Gln	Leu 490		Lys	Tyr	Tyr	Tyr 495	Asp
	Arg	Gly	Tyr	Thr 500	Leu	Thr	Trp	Asp	Asn 505	Gly	Leu	Val	Leu	Tyr 510	Ser	Asn
25	Lys	Ala	Asn 515	Gly	Asn	Glu	Lys	Asn 520	Gly	Pro	Ile	Ile	Gln 525	Asn	Asn	Lys
	Phe	Glu 530	Tyr	Lys	Glu	Asp	Thr 535	Ile	Lys	Glu	Thr	Leu 540	Thr	Gly	Gln	Tyr
30	Asp 545	Lys	Asn	Leu	Val	Thr 550	Thr	Val	Glu	Glu	Glu 555	Tyr	Asp	Ser	Ser	Thr 560
	Leu	Asp	Ile	Asp	Tyr 565	His	Thr	Ala	Ile	Asp 570	-	Gly	Gly	Gly	Tyr 575	Val
35	Asp	Gly	Tyr	Ile 580	Glu	Thr	Ile	Glu	Glu 585	Thr	Asp	Ser	Ser	Ala 590	Ile	Asp
	Ile	Asp	Tyr 595	His	Thr	Ala	Val	Asp	Ser	Glu	Ala	Gly	His 605	Val.	Gly	Gly
40	Tyr	Thr 610	Glu	Ser	Ser	Glu	Glu 615	Ser	Asn	Pro	Ile	Asp 620	Phe	Glu	Glu	Ser
45	Thr 625	His	Glu	Asn	Ser	Lys 630	His	His	Ala	Asp	Val 635	Val	Glu	Tyr	Glu	Glu 640
	Asp	Thr	Asn	Pro	Gly 645	Gly	Gly	Gln	Val	Thr 650	Thr	Glu	Ser	Asn	Leu 655	Val
50	Glu	Phe	Asp	Glu 660	Glu	Ser	Thr	Lys	Gly 665	Ile	Val	Thr	Gly	Ala 670	Val	Ser
	Asp	His	Thr 675	Thr	Val	Glu	Asp	Thr 680	Lys	Glu	Tyr	Thr	Thr 685	Glu	Ser	Asn
55	Leu	Ile 690	Glu	Leu	Val	Asp	Glu 695	Leu	Pro	Glu	Glu	His 700	Gly	Gln	Ala	Gln

	Gly 705	Pro	Val	Glu	Glu	Ile 710	Thr	Lys	Asn	Asn	His 715	His	Ile	Ser	His	Ser 720
5	Gly	Leu	Gly	Thr	Glu 725	Asn	Gly	His	Gly	Asn 730	Tyr	Asp	Val	Ile	Glu 735	Glu
	Ile	Glu	Glu	Asn 740	Ser	His	Val	Asp	Ile 745	Lys	Ser	Glu	Leu	Gly 750	Tyr	Glu
10	Gly	Gly	Gln 755	Asn	Ser	Gly	Asn	Gln 760	Ser	Phe	Glu	Glu	Asp 765	Thr	Glu	Glu
	Asp	Lys 770	Pro	Lys	Tyr	Glu	Gln 775	Gly	Gly	Asn	Ile	Val 780	Asp	Ile	Asp	Phe
15	Asp 785	Ser	Val	Pro	Gln	Ile 790	His	Gly	Gln	Asn	Lys 795	Gly	Asn	Gln	Ser	Phe 800
20	Glu	Glu	Asp	Thr	Glu 805	Lys	Asp	Lys	Pro	Lys 810	Tyr	Glu	His	Gly	Gly 815	Asn
20	Ile	Ile	Asp	Ile 820	Asp	Phe	Asp	Ser	Val 825	Pro	His	Ile	His	Gly 830	Phe	Asn
25	Lys	His	Thr 835	Glu	Ile	Ile		Glu 840	Asp	Thr		Lys	Asp 845	Lys	Pro	Ser
	Tyr	Gln 850	Phe	Gly	Gly	His	Asn 855	Ser	Val	Asp	Phe	Glu 860	Glu	Asp	Thr	Leu
30	Pro 865	Lys	Val	Ser	Gly	Gln 870	Asn	Glu	Gly	Gln	Gln 875	Thr	Ile	Glu	Glu	Asp 880
	Thr	Thr	Pro	Pro	Ile 885	Val	Pro	Pro	Thr	Pro 890	Pro	Thr	Pro	Glu	Val 895	Pro
35	Ser	Glu	Pro	Glu 900	Thr	Pro	Thr	Pro	Pro 905	Thr	Pro	Glu	Val	Pro 910	Ser	Glu
	Pro	Glu	Thr 915	Pro	Thr	Pro	Pro	Thr 920	Pro	Glu	Val	Pro	Ser 925	Glu,	Pro	Glu
40	Thr	Pro 930	Thr	Pro	Pro	Thr	Pro 935	Glu	Val	Pro	Ala	Glu 940	Pro	Gly	Lys	Pro
	Val 945	Pro	Pro	Ala	Lys	Glu 950	Glu	Pro	Lys	Lys	Pro 955	Ser	Lys	Pro	Val	Glu 960
	Gln	Gly	Lys	Val	Val 965	Thr	Pro	Val	Ile	Glu 970	Ile	Asn	Glu	Lys	Val 975	Lys
50	Ala	Val	Ala	Pro 980	Thr	Lys	Lys	Pro	Gln 985	Ser	Lys	Lys	Ser	Glu 990	Leu	Pro
	Glu	Thr	Gly 995	Gly	Glu	Glu	Ser	Thr 1000		Lys	Gly	Met	Leu 1005		Gly	Gly
55	Leu	Phe 1010		Ile	Leu	Gly	Leu 1015		Leu	Leu	Arg	Arg 1020		Lys	Lys	Asn

His Lys Ala 1025

- (2) INFORMATION FOR SEQ ID NO:5255:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 155 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein

15

20

25

30

35

10

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5255:
- Gly Glu Lys Cys Met Phe Leu Ala Trp Asn Glu Ile Arg Arg Asn Lys
 1 5 10 15
 - Leu Lys Phe Gly Leu Ile Ile Gly Val Leu Thr Met Ile Ser Tyr Leu 20 25 30
 - Leu Phe Leu Leu Ser Gly Leu Ala Asn Gly Leu Ile Asn Met Asn Lys
 35 40 45
 - Glu Gly Ile Asp Lys Trp Gln Ala Asp Ala Ile Val Leu Asn Lys Asp 50 55 60
 - Ala Asn Gln Thr Val Gln Gln Ser Val Phe Asn Lys Lys Asp Ile Glu 65 70 75 80
 - Asn Lys Tyr Lys Cln Ala Thr Leu Lys Gln Thr Gly Glu Ile Val 85 90 95
 - Ser Asn Gly His Gln Lys Asp Asn Val Leu Val Phe Gly Val Glu Lys
 - Ser Ser Phe Leu Val Pro Ser Leu Ile Glu Gly His Lys Ala Thr Lys
 - Asp Asn Glu Val Leu Ala Asp Glu Thr Leu Lys Asn Lys Gly Leu Lys 130 135 140

45

50

- 55

Claims

- Computer readable medium having recorded thereon a nucleotide sequence of the Staphylococcus aureus genome as depicted in SEQ ID NOS:1-5,191, a representative fragment thereof or a nucleotide sequence at least 95 % identical to a nucleotide sequence depicted in SEQ ID NOS:1-5,191.
- Computer readable medium having recorded thereon any one of the fragments of SEQ ID NOS:1-5,191 depicted in Tables 2 and 3 or a degenerate variant thereof.

- 3. The computer readable medium of claim 1, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.
- 4. The computer readable medium of claim 3, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.
- 5. A computer-based system for identifying fragments of the Staphylococcus aureus genome of commercial importance comprising the following elements:
- (a) a data storage means comprising the nucleotide sequence of SEQ ID NOS:1-5,191, a representative fragment thereof, or a nucleotide sequence at least 95% identical to a nucleotide sequence of SEQ ID NOS: 1-5,191;
 - (b) search means for comparing a target sequence to the nucleotide sequence of the data storage means of step (a) to identify homologous sequence(s), and
 - (c) retrieval means for obtaining said homologous sequence(s) of step (b).
- 6. A method for identifying commercially important nucleic acid fragments of the Staphylococcus aureus genome comprising the step of comparing a database comprising the nucleotide sequences depicted in SEQ ID NOS: 1-5,191, a representative fragment thereof, or a nucleotide sequence at least 95% identical to a nucleotide sequence of SEQ ID NOS:1-5,191 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence is not randomly selected.
- 7. A method for identifying an expression modulating fragment of Staphylococcus aureus genome comprising the step of comparing a database comprising the nucleotide sequences depicted in SEQ ID NOS:1-5,191, a representative fragment thereof, or a nucleotide sequence at least 95% identical to the nucleotide sequence of SEQ ID NOS:1-5,191 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence comprises sequences known to regulate gene expression.
- 8. A protein-encoding nucleic acid fragment of the Staphylococcus aureus genome,
 wherein said fragment comprises the nucleotide sequence of any one of the fragments of SEQ ID NOS:
 1-5,191 depicted in Tables 2 and 3 or a nucleotide sequence at least 95% identical to such a nucleotide sequence, or a degenerate variant of any of the aforementioned sequences.
- 9. The nucleic acid fragment of claim 8 which is DNA.

5

10

15

20

40

45

- 10. The nucleic acid fragment of claim 8 which is RNA.
- 11. A vector comprising a fragment of claim 8.
- 12. A fragment of the Staphylococcus aureus genome, wherein said fragment modulates the expression of an operably liked open reading frame, wherein said fragment consists of the nucleotide sequence from about 10 to 200 bases in length which is 5' to any one of the open reading frames depicted in Tables 2 and 3 or a nucleotide sequence at least 95% identical to such a nucleotide sequence or a degenerate variant of any of the aforementioned sequences.
- 13. A vector comprising a fragment of claim 12.
- **14.** A organism which has been altered to contain any one of the fragments of the Staphylococcus aureus genome of claim 8.
 - 15. A method for producing a polypeptide in a host cell comprising the steps of:
- (a) incubating an organism of claim 14 under conditions where said fragment is expressed to produce said protein, and
 - (b) isolating said protein.
 - 16. An organism which has been altered to contain any one of the fragments of the Staphylococcus aureus genome

of claim 12.

- 17. A method for regulating the expression of a nucleic acid molecule comprising the step of covalently attaching to said nucleic acid molecule a nucleic acid molecule consisting of the nucleotide sequence from about 30 to 300 bases 5' to any one of the fragments of the Staphylococcus aureus genome depicted in Seq ID Nos:1-5,191 and Tables 2 and 3 or a nucleotide sequence at least 95% identical to such a nucleotide sequence or a degenerate variant of any of the aforementioned sequences.
- 18. A nucleic acid molecule being a homolog of any of the fragments of the Staphylococcus aureus genome of SEQ 10 ID NOS:1-5,191 and Tables 2 and 3, wherein said nucleic acid molecule is produced by a process comprising the steps of:
 - (a) screening a genomic DNA library using as a probe a target sequence defined by any of SEQ ID NOS: 1-5,191 and Tables 2 and 3, including fragments thereof;
 - (b) identifying members of said library which contain sequences that hybridize to said target sequence;
 - (c) isolating the nucleic acid molecules from said members identified in step (b).
 - 19. A DNA molecule being a homolog of any one of the fragments of the Staphylococcus aureus genome of SEQ ID NOS:1-5,191 and Tables 2 and 3, wherein said nucleic acid molecule is produced by a process comprising the steps of:
 - (a) isolating mRNA, DNA, or cDNA produced from an organism;
 - (b) amplifying nucleic acid molecules whose nucleotide sequence is homologous to amplification primers derived from said fragment of said Staphylococcus aureus genome to prime said amplification;
 - (c) isolating said amplified sequences produced in step (b).
 - 20. A polypeptide encoded by a fragment of claim 8.
 - 21. An antibody which selectively binds to any one of the polypeptides of claim 20.
 - 22. A kit for analyzing samples for the presence of polynucleotides derived from Staphylococcus aureus, comprising at least one polynucleotide containing a nucleotide sequence of any one of the fragments SEQ ID NOS:1-5,191 depicted in Tables 2 and 3 or a nucleotide sequence at least 95% identical thereto or a degenerate variant of any of the aforementioned sequences, that will hybridize to a staphylococcus aureus polynucleotide under stringent hybridization conditions, and a suitable container.
 - 23. A Staphylococcus aureus polypeptide comprising an amino acid sequence identical to an amino acid sequence selected from the group consisting of SEQ ID NOS:5,192 to 5,255 or comprising an amino acid sequence having at least 95% identity to such a sequence.
 - 24. A Staphylococcus aureus polypeptide antigen comprising at least one epitope derived from a Staphylococcus aureus polypeptide selected from the group consisting of SEQ ID NOS:5,192 to 5,255.
 - 25. A polypeptide comprising at least one epitope encoded by a Staphylococcus aureus amino acid sequence selected from the group consisting of the epitopic sequences listed in Table 4.
 - 26. The polypeptide of claim 24 or 26, wherein said polypeptide is fixed to a solid phase.
 - 27. A diagnostic kit for detecting Staphylococcus aureus infection comprising
 - (a) an isolated polypeptide antigen of claim 24, and
 - (b) means for detecting the binding of an antibody contained in a biological fluid to said antigen.
 - 28. A vaccine composition comprising a polypeptide of claim 24 present in a pharmaceutically acceptable carrier.
 - 29. A method of vaccinating an individual against Staphylococcus aureus infection comprising, administering to an individual the vaccine composition of claim 28.

15

20

25

30

35

40

45

50

55

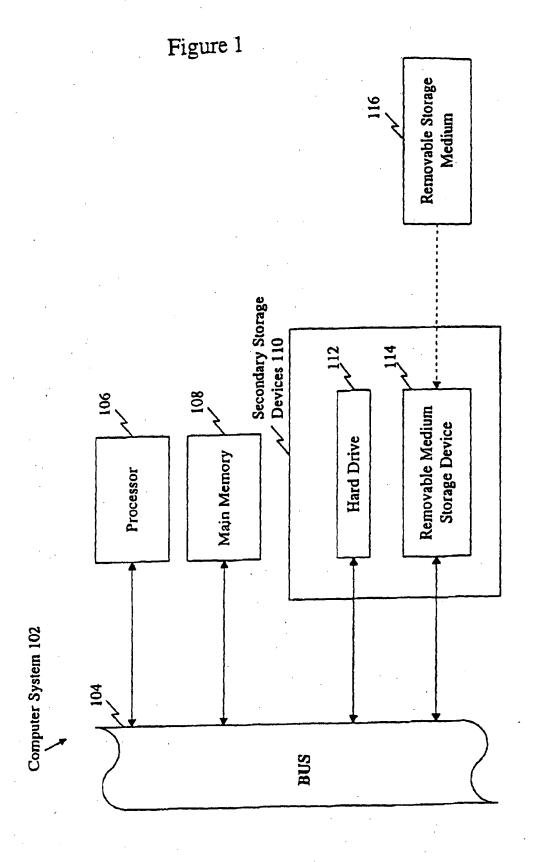
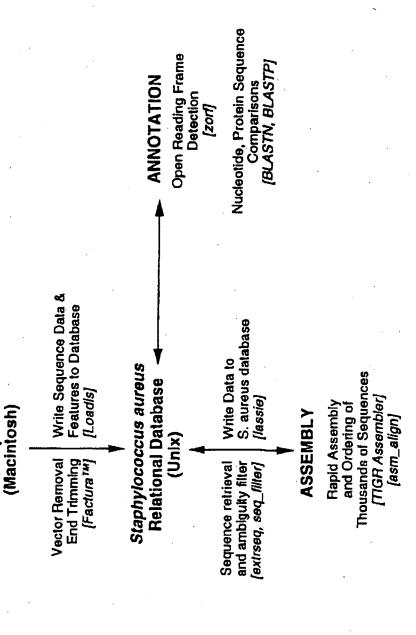


Figure 2



AB 373 and 377 DNA Sample Files